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PANAMA CANAL COMMISSION

ANNUAL REPORT

FISCAL YEAR ENDED SEPTEMBER 30, 1992





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PANAMA CANAL COMMISSION

Balboa, Republic of Panama OFFICE OF THE ADMINISTRATOR

FROM THE ADMINISTRATOR

It is a pleasure to submit the annual report of the Panama Canal Commission for Fiscal Year 1992. This marks the thirteenth year of successful operation under the Panama Canal Treaty. The Canal organization also celebrated the seventy-eighth anniversary of the opening of the waterway.

This year most major elements of Canal traffic and tolls revenue registered slight declines from prior year levels, primarily due to a return to more normal trade patterns following the end of the Persian Gulf crisis, and the economic slowdown affecting the United States and Japan. Oceangoing commercial transits declined by one percent and average ship size fell, resulting in a 1.5 percent drop in Panama Canal net tonnage. Correspondingly, tolls revenue declined 1.6 percent to \$368.7 million from the \$374.6 million collected in the prior year. Although the average size of transiting vessels in terms of Panama Canal net tonnage declined, transits by vessels in the 100-foot beam and over category, the largest ships the Canal can accommodate, increased to a record 3,013, or nearly 24 percent of total oceangoing transits. Average Canal Waters Time for transiting vessels remained below the agency's 24 hour standard, at 22.1 hours.

Significant investments continued to be made in Canal maintenance, modernization and improvement programs. These included the near completion of the Pacific entrance widening program for improved navigational safety; accomplishment of a four-phase overhaul of rising stem and cylindrical valves at Miraflores Locks; final installation of highly

durable flat fenders at all locks; initiation of dry excavation, under contract, in connection with the major multi-phase program to widen Gaillard Cut; major overhaul of the floating crane Hercules and the dipper dredge Christensen; and acquisition of three new 53-foot aluminum hull launches.

In the spirit of the Panama Canal treaty, advances were also made in the development and placement of Panamanian personnel at all levels of the agency. Of notable importance has been the ongoing training of Panamanian Canal pilots who by year-end numbered 100, or 43 percent of the pilot force. Overall, Panamanians comprise nearly 88 percent of the Canal's total permanent work force.

I wish to commend all Canal employees for their praiseworthy performance. Their commitment and dedication have been exemplary and will unquestionably contribute to the future success of the organization and the continued confidence of world shipping using the waterway.

GILBERTO GUARDIA F.

Administrator

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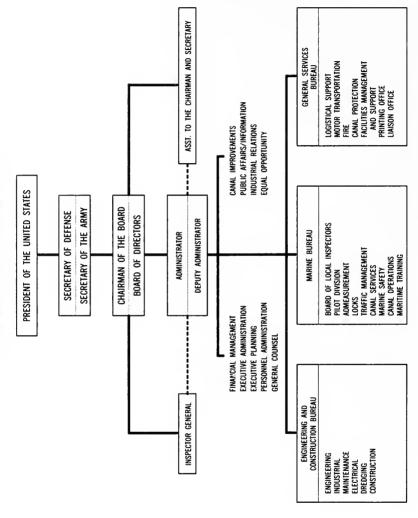
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PANAMA CANAL COMMISSION



INTRODUCTION ORGANIZATION

The Panama Canal Commission is an agency of the Executive Branch of the United States Government, provided for by the Panama Canal Treaty of 1977, and established by the Panama Canal Act of 1979 (93 Stat. 452; 22 U.S.C. 3601 et seq), enacted September 27, 1979. The authority of the President of the United States with respect to the Commission is exercised through the Secretary of Defense and the Secretary of the Army. The Commission is supervised by a nine-member Board. Five members are nationals of the United States appointed by the President with the advice and consent of the Senate. Four members are nationals of the Republic of Panama who are proposed by the Republic of Panama for appointment by the President.

The Commission was established to carry out the responsibilities of the United States with respect to the Panama Canal under the Panama Canal Treaty of 1977. In fulfilling these obligations, the Commission manages, operates, and maintains the Canal, its complementary works, installations, and equipment, and provides for the orderly transit of vessels through the Canal. The Commission will perform these functions until the treaty terminates on December 31, 1999, at which time the Republic of Panama will assume full responsibility for the Canal.

The operation of the waterway is conducted on a self-financing basis. The Commission is expected to recover through tolls and other revenues all costs of operating and maintaining the Canal, including interest, depreciation, capital for plant replacement, expansion and improvements, and payments to the Republic of Panama for public services and annuities, in accordance with paragraph 5 of Article III and paragraphs 4(a) and (b) of Article XIII, respectively, of the Panama Canal Treaty of 1977. Revenues from tolls and all other sources are deposited in the U.S. Treasury in an account known as the Panama Canal Revolving Fund. The resources in this fund are available for continuous use and serve to finance Canal operating and capital programs which are reviewed annually by the Congress.

THE CANAL

The Panama Canal is a lock-type canal approximately 51 miles long from deep water to deep water. The minimum width of the navigable channel is

2 INTRODUCTION

500 feet. Navigable channel depth can vary according to the amount of water available in Canal storage areas; however, the normal permissible transit draft is 39 feet 6 inches tropical fresh water.

Vessels transiting the Canal are raised in three steps to the level of Gatun Lake, the principal source of Canal water, then lowered to sea level again in three steps. The three sets of Canal locks are paired so as to permit simultaneous lockage of two vessels in the same or opposite direction.

Since August 15, 1914, the official date of its opening, the Panama Canal has been serving world trade. Through this fiscal year, a total of 745,932 vessels of all types have transited with 631,429 or 84.6 percent of the total being of the oceangoing commercial class.

TOLL RATES

Toll rates during FY 1992 were: (a) on merchant vessels, Army and Navy transports, hospital ships, supply ships, and yachts, when carrying passengers or cargo, \$2.01 per net vessel ton of 100 cubic feet of actual earning capacity, as determined in accordance with the "Rules of Measurement of Vessels for the Panama Canal;" (b) on such vessels in ballast, without passengers or cargo, \$1.60 per net vessel ton; and (c) on other floating craft, \$1.12 per ton of displacement. These rates have been in effect since October 1, 1989.

A 9.9 percent increase in toll rates was approved to take effect October 1, 1992.

By treaty, the United States continues to provide to Colombia free transit through the Canal of its troops, materials of war, and ships of war.

BOARD OF DIRECTORS

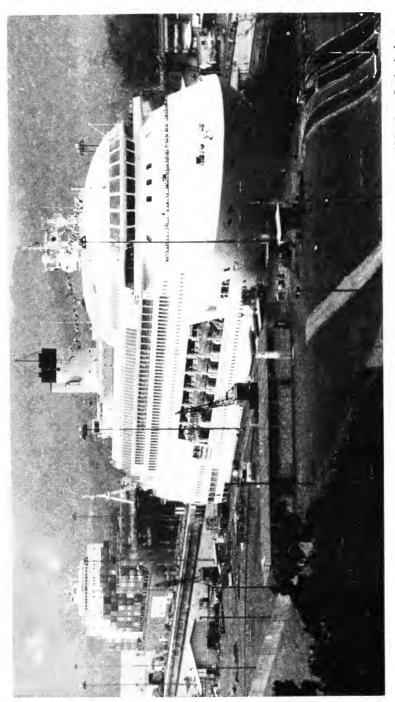
Ending Fiscal Year 1992

Honorable MICHAEL P. W. STONE Chairman, Board of Directors Panama Canal Commission	Honorable ROBERT R. MCMILLAN Garden City, New York
Washington, D.C.	Honorable Alfredo N. Ramirez Panama, Republic of Panama
Honorable CECILIA A. ALEGRE	
Panama, Republic of Panama	Honorable WALTER J. SHEA Annapolis, Maryland
Honorable Luis A. Anderson	•
Mexico, D.F., Mexico	Honorable JOAQUIN J. VALLARINO, Jr. Panama, Republic of Panama
Honorable WILLIAM E. CARL	•
Corpus Christi, Texas	Honorable JOHN J. DANILOVICH London, England

OFFICIALS IN THE REPUBLIC OF PANAMA

OFFICIAL IN WASHINGTON, D.C.

Assistant to the Chairman and Secretary MICHAEL RHODE, Jr.



a southbound transit. The vessel paid a record toll of \$128,320.41 on April 23, 1992. The Panamax-size containership EVER GIVEN can be The luxury cruise ship REGAL PRINCESS, registering 63,841 Panama Canal net tons, is visible in the west lane of Miraflores Locks during seen transiting in the east lane. Nearly 160 million long tons of cargo passed through the Panama Canal this fiscal year.

Chapter I

CANAL TRAFFIC

TRAFFIC

Most major elements of Canal traffic and tolls revenue declined slightly in fiscal year 1992 due to a return to more normal traffic patterns, following the end of the Persian Gulf War, and the economic slowdown affecting the U.S. and Japan.

A total of 12,636 oceangoing vessels, or an average of 34.5 daily, transited the waterway, declining 1.0 percent from the 12,763 transits or 35 daily registered in the prior year. Transits by commercial vessels totaled 12,454, 0.9 percent less than the 12,572 transits reached in fiscal year 1991. Oceangoing transits by vessels owned or operated by the U.S. Government declined to 167, falling 3.5 percent from the 173 transits of the previous year. Free Colombian vessels accounted for 15 transits in fiscal year 1992 versus 18 in fiscal year 1991.

A decline was also experienced in the average Panama Canal net tonnage of transiting vessels, although transits by the largest vessels capable of passing through the waterway increased to an all-time high. Transits by vessels with beams of 100 feet and over reached a record 3,013 or 23.8 percent of total oceangoing transits compared with 2,947 and 23.1 percent in fiscal year 1991. Those in the 80-foot beam and over category fell to 5, 698 transits or 45.1 percent of total oceangoing transits from 5,825 and 45.6 percent in fiscal year 1991. Average ship size, in terms of Panama Canal net tonnage, declined 0.8 percent to 15,142 tons from 15,260 tons in the prior year.

The decline in transits and average ship size resulted in Panama Canal net tonnage of 190.2 million tons, a 1.5 percent drop from the 193.1 million tons registered in fiscal year 1991. Correspondingly, tolls revenue fell 1.6 percent to \$368.7 million from the \$374.6 million collected in fiscal year 1991.

Total cargo tonnage carried by transiting vessels decreased 2.2 percent to 159.6 million long tons from 163.2 million tons in fiscal year 1991. A number of commodities declined during the year including manufactures of iron and steel, phosphates, and ores and metals.

A two-year summary of the key elements of Canal traffic and tolls revenue is shown in the table below, followed by a more detailed description of cargo movements by trade route.

COMPARATIVE HIGHLIGHTS OF OPERATIONS

	Fiscal Year	
	1992	1991
Oceangoing Transits:		
Commercial	12,454	12,572
U.S. Government	167	173
Free	15	18
Total	12,636	12,763
Daily Average	34.5	35.0
Small Transits:		
Commercial	1,260	1,079
U.S. Government	231	248
Free	21	18
Total	1,512	1,345
Total Cargo: Commercial U.S. Government Free Total	159,273,868 341,337 19 159,615,224	162,696,423 516,130 163,212,553
Total Panama Canal Net Tons and Reconstructed Displacement Tonnage	190,203,395	193,101,533
Transit Revenue:		
Commercial Tolls	\$365,853,774	\$372,398,248
U.S. Government Tolls	2,808,731	<u>2,226,489</u>
Tolls Revenue	<u>\$368,662,504</u>	\$374,624,737
Harbor Pilotage, Tug, Launch, and Other Services	\$ 92,439,154	\$ 97,792,243
		\$472,416,980
Total Transit Revenue	<u>\$461,101,658</u>	9412,410,980

COMMODITIES AND TRADE ROUTES

Fiscal year 1992 was characterized by declines in many commodities traversing the waterway. Commercial cargo dropped 2.1 percent to 159.3 million long tons from 162.7 million long tons in fiscal year 1991. The downturn was driven by a resumption of normal traffic patterns following the end of the Persian Gulf war and to the weakness affecting the U.S. and Japanese economies. Tonnage declines were experienced in manufactures of iron and steel, phosphates, ores and metals, refrigerated products, automobiles, chemicals and petroleum chemicals, minerals and grains. These losses were only partially offset by gains in a few trades such as petroleum products, lumber, coal, and containerized cargo.

Grains, constituting the largest tonnage utilizing the Canal, declined 0.5 percent to 32.7 million long tons from the 32.9 million tons registered during fiscal year 1991. The decline in this commodity group was due to lower corn and wheat exports from the U.S. to the Far East. Corn tonnage was down 4.5 percent to 14.4 million long tons from the 15.0 million long tons of the previous year, primarily due to a drop in corn shipments to Japan. After recovering modestly for three consecutive years, corn tonnage destined for Japan declined 8.9 percent to 10.1 million tons. Wheat, accounting for the second largest tonnage in the group, decreased 4.6 percent to 7.6 million long tons from the 8.0 million tons registered in fiscal year 1991, mainly as a result of lower shipments from the West Coast U.S./Canada to North Africa and from the U.S. East Coast to West Coast South America. The decline offset a modest increase in wheat exports to China, which had been falling for the last two years. Wheat tonnage destined for mainland China from the U.S. via the Canal increased 8.1 percent to 4.2 million tons. Sovbeans, the third most important component of the group, rose 14.7 percent to 7.2 million long tons from the 6.3 million tons of fiscal year 1991, sustained mainly by higher volumes of shipments from the U.S. to Japan and South Korea.

An upturn was registered in the petroleum and products commodity group. After falling to about 24.0 million long tons in fiscal year 1991, the commodity group increased 5.0 percent to 25.2 million tons in fiscal year 1992. The improvement registered in the commodity group was mostly fueled by high gains in residual fuel oil, diesel oil, jet fuel and petroleum coke. Those gains, however, were partially reduced by losses in gasoline, kerosene, and liquefied natural gas. Crude oil shipments were up marginally, increasing 0.5 percent from 8.2 million long tons in fiscal year 1991 to 8.3 million tons in fiscal year 1992. Increases in crude oil movements from Mexico and Venezuela to West Coast Central America were offset by declines in oil flows from Ecuador to the U.S. East Coast and West Indies. Ecuadorian oil flows have continued on a downward trend as a result of shifts in that country's export patterns and

limited production levels.

The important container trade rose 3.2 percent from 21.2 million long tons in fiscal year 1991 to a record high of 21.9 million tons in fiscal year 1992. The increase occurred despite the poor performance of the Canal's principal container trade—between the U.S. East Coast and the Far East which dropped 4.2 percent from prior year levels. Total U.S. containerized imports and exports via the Canal showed a decline, reflecting the effect of the U.S. and Japanese economic slowdowns, combined with the increased impact of the competition exerted by the U.S. intermodal movement, U.S. exports to the Far East through the Canal declined 6.7 percent to 6.1 million tons and imports from the Far East dropped 0.1 percent to 4.8 million tons. Although the container cargo on this route declined, the movement still accounts for over half of the Canal's container tonnage. The U.S. West Coast-Europe route, the second most important route in the container trade, remained flat at 2.7 million tons. The lackluster performance of these main routes contrasted with the gains displayed by most other smaller container routes, particularly the trade to and from West Coast South America. The movement between the U.S. East Coast and West Coast South America increased 29.9 percent to 1.8 million tons and trade between Europe and West Coast South America was up 23.7 percent to 1.4 million tons.

The nitrate, phosphates and potash commodity group, the fourth in importance, dropped 6.3 percent to 13.8 million long tons in fiscal year 1992. A 10.1 percent decrease in phosphates shipments, from 9.5 million long tons to 8.6 million tons, explains most of the group's decline. The downturn was evident in U.S. exports to the Far East and is attributed to a return to more normal trade patterns following the end of the Persian Gulf crisis. The U.S. East Coast - Far East route, the principal phosphate trade lane, showed a 4.9 percent decline to 5.8 million long tons, mainly as a result of a drop in shipments to China, Japan and South Korea. Shipments from the U.S. East Coast to West Coast Mexico were down 82.9 percent to about 100 thousand tons.

The lumber and lumber products commodity group reached record levels for the second consecutive year, increasing 3.5 percent to 9.9 million long tons from 9.5 million tons in fiscal year 1991. Significant gains in pulpwood tonnage account for the high performance of the commodity group. While lumber and lumber products, excluding pulpwood, declined 6.0 percent to 6.1 million tons, pulpwood shipments increased 22.6 percent to a record 3.8 million tons. Flows from the U.S. East Coast to the Far East rose significantly in both segments of the commodity group. Shipments on that route, excluding pulpwood, increased 19.2 percent to 3.1 million tons and pulpwood rose 85.7 percent to 1.3 million tons. West Coast Canada,

which in the past was the major source of lumber and products at the Canal, exhibited a decline for the fourth consecutive year, with shipments to Europe falling 23.6 percent to 1.2 million tons.

A steep decline was observed in the tonnage of ores and metals. The commodity group accounted for 9.6 million long tons, declining 15.9 percent from 11.4 million tons in fiscal year 1991. Both the ores and metals components of the group sustained declines. The poor performance of the ore segment was driven by a decline in shipments of aluminum/bauxite. despite a substantial improvement in copper ore flows. Alumina/bauxite fell 50.3 percent to 0.9 million long tons from 1.9 million tons, with shipments from Oceania to the U.S. East Coast almost disappearing as U.S. imports shifted to Caribbean suppliers. As a result, the ores group declined 12.2 percent to 6.3 million long tons in fiscal year 1992. The metals component of the group dropped 22.2 percent to 3.3 million tons, primarily induced by a decline in scrap metal, which fell 32.1 percent to 1.4 million tons. This downturn in the scrap metal trade was due to lower shipments on the U.S. East Coast - Far East trade, with tonnage destined for South Korea, the main recipient, showing a drop of 28.3 percent to 1.1 million tons.

The coal and coke trade showed an improvement relative to fiscal year 1991 levels, increasing 6.2 percent to 8.9 million tons. The main trade route, consisting of U.S. coal exports to the Far East, displayed an increase of 5.4 percent from 3.7 million long tons in fiscal year 1991 to 3.9 million long tons in fiscal year 1992, with shipments to Japan and Taiwan totaling 1.9 and 2.0 million long tons versus prior year flows of 1.5 and 1.8 million long tons, respectively. In contrast, coal exports exiting Hampton Roads en route to the Far East via the Cape of Good Hope on ships too large to transit the Canal declined from last year's record high of 7.4 million long tons to 6.8 million tons in fiscal year 1992. The second major coal route comprised of Canadian exports to Europe also showed an increase, with shipments up 8.3 percent to 2.6 million tons. Contributing to the overall tonnage gains of the commodity group was a 62.5 increase in coke shipments from the Far East to the U.S. East Coast which reached 1.3 million tons.

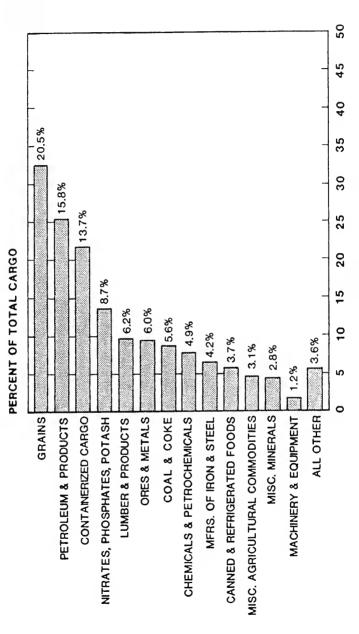
Although tapering off, the downward trend in the automobile trade which began in 1988 continued, with automobile tonnage dropping marginally by 0.9 percent from 1.6 million tons in fiscal year 1991 to 1.5 million long tons in fiscal year 1992. Increases in minor trade routes offset somewhat the continued decline exhibited by the principal automobile shipments, those emanating from Japan to the U.S. East Coast. Japanese automobile imports into the U.S. via the Canal dropped this year another 6.9 percent to 1.0 million tons. This compares with imports of 1.8 million tons in the Canal's automobile peak year of 1987.

A number of other commodity groups, such as refrigerated products, manufactures of iron and steel, chemicals and petrochemicals, other agricultural commodities, and miscellaneous minerals also registered declines during the year. The drop of 4.0 percent sustained by the refrigerated products group was almost entirely due to a drop in fish tonnage moved from the U.S. West Coast and West Coast South America to Europe. Fish shipments were down 40.8 percent, with this loss exceeding the slight gains registered in the bananas and fruits trades. Manufactures of iron and steel registered a substantial decline in fiscal year 1992, falling 19.2 percent to 6.7 million long tons. The decline in this commodity group was particularly evident in the movement from the U.S. East Coast to Asia, which was unusually high in the prior year. Shipments of manufactures of iron and steel on the important Far East to U.S. East Coast route also deteriorated. The downturn in the chemicals and petrochemicals group is explained, in part, by the return to more normal patterns in world trade following the end of the Persian Gulf crisis. The other agricultural commodities group declined 3.2 percent to 5 million tons with the main component, sugar, showing a drop of 9.7 percent. The miscellaneous minerals commodity group decreased 9.1 percent to 4.5 million long tons with sulfur tonnage accounting for a loss of 11.9 percent.

Trade between the Far East and the U.S. East Coast continued to dominate Canal traffic, accounting for 38.5 percent of total commercial cargo passing through the waterway compared with 38.6 percent in fiscal year 1991. Cargo moved on that trade route, however, registered a 2.4 percent decline to 61.3 million long tons from 62.8 million tons in the prior year, reflecting the effect of the recession in the U.S. and Japanese economies.

The following tables show the principal commodity groups moving in oceangoing commercial vessels during fiscal year 1992 and a comparison of the major trade routes in fiscal years 1992 and 1991.

PRINCIPAL COMMODITY GROUPS
TRANSITING THE CANAL
OCEANGOING COMMERCIAL CARGO FY 1992

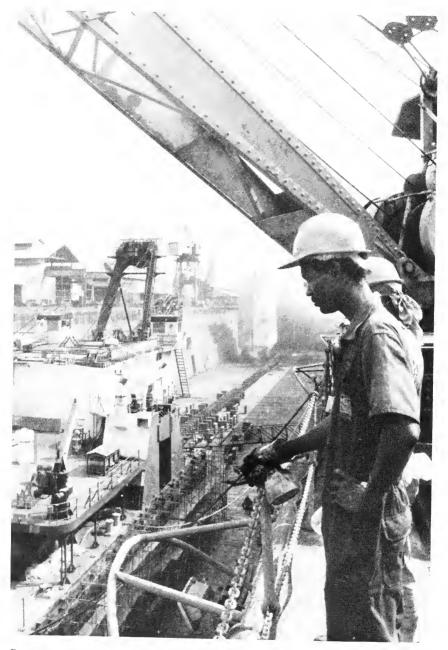


MILLIONS OF LONG TONS

Major Voyage Trade Routes in Canal Traffic

		Fiscal Year	Year		Darca	90
	- 10	1992	1661		Increase or	se or
					(Decrease,	ease)
	Panama	_	Panama		Panama	
	Canal	Long	Canal	Long	Canal	Long
	Net	Tons	Net	Tons	Net	Tons
	Tons	Cargo	Tons	Cargo	Tons	Cargo
Trade Route		In thousands of long tons	of long tons]			
East Coast United States-Asia	080'99	61,302	67,920	62,822	(2.7%)	(2.4%)
East Coast United States-West Coast South America	17,088	10,410	17,140	11,257	(0.3%)	(7.5%)
Round the World	13,889	8,016	14,127	7,948	(1.7%)	0.6%
Europe-West Coast South America	13,602	8,025	13,983	8,348	(2.7%)	(3.9%)
Europe-West Coast United States/Canada	12,084	15,040	11,549	15,022	4.6%	0.1%
East Coast United States-West Coast Central America	6,829	966'9	5,920	5,785	15.4%	10.6%
Europe-Asia	6,646	4,614	6,672	4,684	(0.4%)	(1.5%)
East Coast United States/Canada-Oceania	4,588	5,144	5,215	6,196	(12.0%)	(17.0%)
United States Intercoastal (including Alaska and Hawaii)	4,552	2,608	4,942	2,031	(7.9%)	28.4%
South America Intercoastal	4,272	3,956	3,519	3,163	21.4%	25.1%
West Indies-Asia	3,309	2,334	3,478	2,310	(4.9%)	1.0%
Europe-West Coast Central America	3,084	1,638	3,204	1,423	(3.7%)	15.1%
Subtotal	156,023	129,483	157,669	130,989	(1.0%)	(1.1%)
All other routes	32,493	29,790	34,118	31,707	(4.8%)	(6.0%)
Total	188,516	159,273	191,787	162,696	(1.7%)	(2.1%)





Contract workers look on as the Commission's dipper dredge RIALTO M. CHRISTENSEN (foreground) and Floating Caisson #2 (background) undergo one phase of a major overhaul at the Balboa drydock. The other phase of the overhaul work was performed at the Industrial Division at Mt. Hope.

Chapter II

CANAL OPERATIONS

Canal operations are comprised of Transit Operations, Maintenance, and Related Canal Projects. The various functions are divided among a number of operating bureaus within the Canal agency.

TRANSIT OPERATIONS

Daily average transits by oceangoing vessels averaged 34.5 per day during fiscal year 1992. Average time in Canal waters increased slightly from 22.0 hours in fiscal year 1991 to 22.1 hours in fiscal year 1992.

The following table indicates the number of large oceangoing vessels (by beam and length) that transited the Canal during the last 13 years:

Fiscal Year	Vessels of 600-foot length and over	Percent of total oceangoing transits	Vessels of 80-foot beam and over	Percent of total oceangoing transits
1992	3,982	31.5	5,695	45.1
1991	4,008	31.4	5,825	45.6
1990	3,772	31.3	5,545	46.0
1989	3,913	32.4	5,734	47.5
1988	4,047	32.9	6,027	48.9
1987	4,005	32.5	5,902	48.0
1986	4,131	34.4	5,898	49.1
1985	3,862	33.1	5,514	47.3
1984	3,865	33.9	5,496	48.3
1983	4,157	35.1	5,869	49.5
1982	5,534	39.5	7,226	51.1
1981	4,855	34.7	6,364	45.5
1980	4,598	33.8	6,089	44.7

The number of vessels transiting at more than 36-foot draft decreased 4.4%: 1,853 vessels during fiscal year 1992 compared to 1,938 during fiscal year 1991. The maximum allowable draft remained at 39 feet 6 inches during the entire fiscal year.

Total jobs performed by Commission tugs decreased from 40,580 in fiscal year 1991 to 38,134 in fiscal year 1992.



Following approval by the Commission's Board of Directors, work was initiated in January 1992 to widen Gaillard Cut. This multi-phase program will be performed over a number of years utilizing contractors to complete the dry excavation and the Commission will use in-house resources to conduct wet excavation.

		Year
	1992	1991
Oceangoing transits	12,636	12,763
Tug jobs: Balboa	29,159	28,332
Cristobal	8,975	12,248
Tug operating hours	60,604	62,535

MAINTENANCE AND CANAL IMPROVEMENT PROGRAMS

Planned maintenance, scheduled overhauls, and general improvements to the Canal and appurtenant structures were accomplished throughout the year as programmed. The various divisions and units of the Engineering and Construction Bureau are responsible for the overall physical maintenance and improvement of the waterway. The Marine Bureau operates and maintains the locks and related facilities.

Channel Improvements: Channel dredging activities during fiscal year 1992 focused on the Pacific Entrance Channel Widening, where 2,138,465 cubic yards of material were removed by the suction dredge MINDI. A total of 9,482,000 cubic yards of material has been dredged to-date on the widening project which began in September 1988 and is scheduled to be completed in 1993. The MINDI also performed maintenance dredging of Miraflores Lake and at the Pacific Entrance, alongside the U.S. Navy piers at Rodman. Additionally, taking advantage of the temporary presence of a commercial dredge at the Pacific entrance to the Canal, a contract was awarded to dredge a flared area west of the west prism line at the beginning of the Pacific entrance to the canal. The dredged area will provide a greater degree of safety to vessels entering and exiting the southernmost tip of the channel. The contract also required that dredging be performed at the Balboa ship holding area west of pier 18.

Two new navigation range towers with lights were purchased and installed. The towers, one located off-shore and the other on-shore along the newly widened south west end of Balboa Reach, will provide proper target alignment at the widened Pacific entrance.

Locks: A four-phase valve overhaul of Miraflores Locks was conducted during fiscal year 1992, which included the conversion of all rising stem valves from "roller train" type to "sliding bearing surface," repairs to 19 cylindrical valves and replacement of 21 others.

At Gatun Locks, a turntable was installed and adjacent track work performed. The project was completed 64 days ahead of schedule. The turntable at Pedro Miguel north approach is awaiting final pit design and will be the last of five units to complete the turntable replacement program.

The Maintenance Division completed installation of new forebay/tail-bay sandwich type fenders at all three locks. The Locks Fenders System Committee (LFSC) evaluated 1,200 feet of experimental approach wall sandwich type fenders installed at Pedro Miguel southeast approach wall

and has recommended further improvements to incorporate more energy absorption capabilities.

A project is underway to install a new marine foam-type fire protection system at Pedro Miguel Locks. Scheduled for completion in fiscal year 1993, this system will be similar to the one installed at Miraflores Locks.

The replacement of the loadbreaking switches and power feed cable at Gatun Locks is presently in progress. This phase of the project should be completed during fiscal year 1993. Subsequent phases of the project include similar work at Miraflores and Pedro Miguel Locks. The new switches are an improved type that allow switching under a load, thus improving lockout operation with an added margin of safety.

At all locks, the 565 CFM and 1200 CFM air compressors are being replaced with 1500 CFM oil free units. The first three new air compressors, one for each set of locks, have been delivered to Pedro Miguel Locks. Installation should be completed by the middle of fiscal year 1993.

Gaillard Cut Widening: Preparatory work was initiated early in the fiscal year to provide the design, drawings, specifications, and estimates necessary to solicit bids on the dry excavation work to be conducted at the north end of the west bank. Individual bids were solicited and contracts awarded on 5 separate projects to remove approximately 1,140,300 cubic meters (1,482,400 cubic yards) of dry material.

The subaqueous portion of the Cut widening program is scheduled to be performed by the Dredging Division beginning in the latter part of fiscal year 1994.

Bank Improvements: A section of canal bank at the northwest wingwall of Miraflores Locks was protected from erosion by construction, under contract, of an anchored sheet pile.

Following earth movement and drainage improvement work at Cocoli Hill and along East Culebra and East Lirio reaches, reforestation of these areas was performed under contract with the planting of approximately 16,000 fast-growing acacia mangium trees.

Pilot, Tug and Launch Facilities: A new, modern pilot reporting station was inaugurated in Diablo on August 12, 1992. It is equipped with comfortable waiting rooms and computer terminals which display ship arrival and departure times, so that pilots can monitor their schedules.

Construction of a tug landing at Gamboa was completed under contract on June 11, 1992. A tug and launch landing was also constructed under contract at Paraiso and completed August 25, 1992.

A sheltered work area at the Launch Repair Facility in the Industrial Division was built. The sheltered area consists of three finger piers capable of docking six launches and provides all utilities necessary to accomplish 24-hour launch repair operations.

Dams, Spillways and Power Stations: Six of the fourteen spillway gates at Gatun Dam were completely rehabilitated and overhauled at the Industrial Division in Mt. Hope. Additionally, two 10-foot diameter and 36-foot high stacks were fabricated at the Industrial Division and installed at the Miraflores power generating station.

Communications: A multi-year program to upgrade telecommunications service Commission-wide was concluded in May with the placement in service of a new telephone switch at Gamboa. Together with the previously installed switches at Balboa, Miraflores, and Gatun, the Commission now has a modern computerized digital telecommunications network throughout the agency. The improvements include state-of-the-art business communications features, uniform dialing and signalling, full compatibility with the Republic of Panama's telephone system, adherence with international standards, and integrated voice-data transmission capabilities.

Floating Equipment Maintenance: Overhaul of the floating crane Hercules was initiated at the Mt. Hope, Industrial Division complex. Primary work included refurbishing crew quarters, installation of a bilge and ballast system, installing a new auxiliary generating system composed of two 125 KW generators, complete change of fendering from wood to synthetic rubber units, mechanical and structural work on the main boom and gears which included rebuilding the boom rotation drive mechanism, refurbishing and repairing the electrical system, and complete painting and testing.

The dipper dredge Christensen was overhauled in two phases beginning with work at the Balboa Drydock. The work included repairs to the hull and spud guides, refurbishment of the dredge's sea chest, valves, and the engine bilge and fuel tanks. The second phase of the overhaul was performed at the Industrial Division and consisted of installing new fenders and accomplishing repair work to the hull and other areas above the waterline.

The drill barge THOR was towed to Mt. Hope in June to receive its scheduled major overhaul. A new diesel-driven generator system for the drill-barge was purchased and is being installed. Overhaul work should be completed during fiscal year 1993.

Rehabilitation of the tug GUIA was completed. Satisfactory sea trials were conducted and the tug was returned to service in November.

Major overhauls were conducted at the Industrial Division's synchrolift facility on the tugs ALIANZA, GAMBOA, MORROW, ESPERANZA, and PARFITT, and repairs were made to the PAZ. Preventive maintenance was performed on the tugs BURGESS, McAULIFFE, AMISTAD, GUIA, PROGRESO, ALIANZA, MEHAFFEY, and SCHLEY during the year.

Floating Caisson #2 was repaired and refurbished at the Mt. Hope syncrolift facility by the Industrial Division. The caisson was afterwards

towed to the Balboa Drydock for repair and painting of the hull below the waterline by the contractor.

Acquisitions and Contracts: Three new 53-foot aluminum twin screw pilot/linehandling launches, the SIERRA, SWORDFISH and SABALO, were received on August 29, 1992. Each has a capacity for 34 passengers.

A contract was awarded to expand the existing Partial Task Simulator to a Full Mission Bridge Simulator. This new equipment will improve Canal pilot training capabilities.

A new Grit Blasting Facility at the Industrial Division, Mt. Hope, was inaugurated at the beginning of the fiscal year. The structure consists of three environmentally-controlled chambers for blasting, painting, and curing. This facility will enable top-of- the-line service to be provided and will significantly reduce airborne grit particle dispersion. Construction of the facility was performed by a contractor.

Cleaning, painting, and minor structural modifications to various railroad track span towers and replacement of associated insulators, hardware, and conductors on sections of the 44 KV line was completed under contract.

During the year, the Engineering and Construction Bureau awarded 141 construction type contracts for a total of approximately \$29 million.





A contract was awarded to upgrade the former floating wooden landing at the Paraiso tug and launch facility. Construction work can be seen in progress (upper photo) as the Panamax-size vessel BELFOREST transits in the background, heavily laden with lumber products. The new permanent concrete facility (lower photo), which was completed on August 25, 1992, requires little maintenance.

Chapter III

SUPPORTING OPERATIONS

Supporting units of the Panama Canal Commission provided essential support services for the operation and maintenance of the waterway and the Agency's facilities, as well as to other U.S. agencies on the Isthmus and to employees and their dependents. These operations included logistical services, community services, sanitation and grounds management, transportation services, public utilities, fire protection, security, health and safety and other employee services.

LOGISTICAL SERVICES

The Logistical Support Division provided centralized procurement, inventory management, distribution, contract administration and supply and property disposal support to Panama Canal operations. A total of \$82.5 million in goods and services were procured during fiscal year 1992, including \$29.3 million from sources in Panama. This includes \$5.5 million for light diesel fuel oil purchased from Esso Standard Oil, S.A. Bunker "C" oil purchases for thermoelectric power generation totalled \$10.4 million (one purchase from a U.S. firm and two from Refinería Panamá). Major contracting obligations included \$2,990,440 for catastrophic insurance coverage; \$1,186,550 for power transformers; \$996,000 for rewinding and uprating hydroelectric generators; \$973,660 for trash rakes/racks at generating stations; \$900,717 for fire trucks; \$862,533 for bridge (ship) simulator upgrade; \$628,800 for fender parts; \$580,217 for centralized security patrol; \$529,600 for drilling equipment; \$513,470 for a 40-ton hydraulic crane; and \$499,896 for a pilot/linehandler launch.

Approximately \$21.1 million in inventory items were issued for Commission use and \$20.6 million were obligated for new inventory purchases during the year. A total inventory of 36,338 line items with a cost value of \$30.8 million was on hand at year end.

Activities of the Excess Disposal Unit included no-cost transfers to other U.S. Government agencies of excess equipment having an original acquisition value of \$3.7 million. Surplus property sold to the Government

of Panama at current fair market value amounted to approximately \$5,022. Sales to others totalled \$340,635.

The New Orleans Branch in Louisiana expedited urgent purchases and coordinated all Commission cargo shipments from the United States to Panama. A total of 18,315 measurement tons of containerized and breakbulk cargo were shipped from Louisiana ports to the Republic of Panama.

FACILITIES MANAGEMENT AND SUPPORT DIVISION

During fiscal year 1992, the Community Services and Sanitation and Grounds Divisions were merged into one, the Facilities Management and Support Division. This division managed Commission housing, Commission-owned buildings, the Furniture Pool, the Technical Resources Center, the Employee Fitness Program and the sanitation and grounds activities.

Sanitation operations provided comprehensive environmental health support to Commission employees and Panama Canal operating units. This responsibility extended to protecting the work force from epidemic tropical diseases, such as dengue, malaria and encephalitis, which are transmitted by mosquitoes and other insect and arthropod vectors. Over the past several years, mosquito surveillance and control measures have intensified since the Panama City metropolitan area became heavily infested with the dengue fever vector. No dengue cases have occurred yet, but the threat of a widespread epidemic of this disease continues to exist. In fiscal year 1992, only 28 active breeding sites were found and controlled within Commission housing areas, a three-fold decrease compared to last year's findings.

The Entomology Unit, in coordination with the Sanitation Office, maintains an extensive surveillance network to monitor mosquito populations throughout the Canal area. While most routine mosquito control measures involve mainly hand labor to maintain some 130 miles of drainage ditches, in early fiscal year 1992 a sophisticated tide control structure was installed at the Farfan River spillway. This system of four counter-balanced metal gates blocks the influx of seawater into the marsh, yet allows accumulated fresh water from rainfall to flow out of the marsh into the bay. This has brought about long-term nonchemical control of sand flies and has greatly reduced the emergence of the migratory salt marsh mosquitoes.

The program to control Africanized "killer bees" continues to function well by eliminating all Africanized bee colonies reported to the Division. Due to very dry conditions favorable to bee reproduction, the division workload to control these insects increased from 202 calls in fiscal year 1991 to 289 control operations in fiscal year 1992, including ten swarms aboard transiting vessels.

Atlantic and Pacific Commission sanitary landfills continue to provide for disposal of solid wastes for the Canal area, including that from U.S. military installations and Government contractors. The net refuse disposal workload increased by 10 percent this fiscal year, while refuse tonnage from U.S. military posts fell by 2 percent compared to figures for the previous fiscal year.

Grounds agronomists provided technical support for the long-term Gaillard Cut reforestation project, managed by the Engineering Division. The 64,000 fast-growing Acacia and Gmelina trees have continued to be effective in stabilizing several slopes along the Canal where massive landslides had occurred in the past. Wildfire suppression through the clearing of weeds and other dry vegetation in addition to the application of fire retardant chemicals through the coordinated efforts of both grounds crews and Commission fire fighters, did much to reduce severe fire damage to these tree plantations over the past two years.

The Technical Resources Center provided responses to 3,330 mission-supported information and research questions to units of the Commission and other U.S. agencies. It also continued to maintain a collection of library and tridimensional materials relating to the history and operation of the Panama Canal. This unit supported the professional development of the pilot understudies and other employees through workshops, scanning 6,604 technical journals, providing 2,434 current awareness services, as well as bibliographies and conference information.

The buildings management activity maintained and operated Commission buildings and structures (not specifically assigned to other Commission units) and a centralized custodial service. As an ongoing project, this unit continued to modify facilities to comply with OSHA standards for handicapped personnel and increased physical security of buildings. During the year, Pier 16, Cristobal, with appurtenances, fuel and utility lines, and the Commission's portion of Gatun Tank Farm including nine fuel storage tanks with the fuel and utility lines connecting from the tank farm to Pier 16, Cristobal, were transferred to the Government of Panama. The branch also operates the Commission's furniture pool, which coordinates the procurement of new office furniture and related furniture requirements such as inventory, transportation, storage, maintenance and repair.

The housing portion of the operation allocated its resources to managing, maintaining, repairing, performing preventive maintenance, bringing up to standard the safety and security aspects of the quarters inventory. On February 28, 1992, a Letter of Authorization was issued granting Panama's Ministry of Housing (MIVI) the control and administration of four housing units (halves of duplexes) located in Diablo at no cost to the Government of Panama until the entire structure is formally transferred to Panama.

Under the multi-year housing management plan to transfer housing units to the Government of Panama (GOP), the division identified 73 housing units in the townsites of Balboa, Diablo, Gamboa and Margarita for release by the end of calendar year 1992. Seven of these units have already been released. Housing inventory was reduced by 140 units (137 transferred to Panama and 3 demolished because they were beyond economical repair), decreasing the total inventory from 1,490 to 1,350 units. This represents 31 percent of the inventory of approximately 4,300 units owned by the Panama Canal Company prior to entry into force of the Panama Canal Treaty in 1979. A total of 69.26 percent of those units have transferred to the GOP in 13 years since treaty implementation.

The preparation of housing units for transfer under established safe, sanitary and secure guidelines is now being performed by contract forces. This preparation, which was formerly performed by hired labor, should result in savings for the Commission.

The Employee Fitness Branch administered a variety of duty-related as well as off-duty fitness programs and recreational facilities. The branch operates 12 facilities throughout the Canal area. Regular year-round activities are swimming, weight training, aerobics exercises (regular, low-impact) and water exercises, racquetball and jogging. Seasonal sports are tennis, softball, volleyball, soccer and basketball. There are certain programs specially created for Commission employees' dependents such as youth baseball, swimming classes, youth soccer, archery, gymnastics, pingpong, basketball, etc. Training was provided to Commission units in rescue, water safety, advanced life saving and survival floating. The branch continues to be responsible for certifying swimming proficiency of job applicants and employees.

MOTOR TRANSPORTATION SERVICES

The Motor Transportation Division operated and maintained a consolidated motor pool of 939 vehicles designed to meet the vehicular transportation requirements of the Commission. The vehicle fleet in fiscal year 1992 included 643 trucks of various types, 208 passenger-carrying vehicles, 41 special purpose vehicles and 47 special equipment. Fleet mileage decreased from 8,032,112 last year to 7,716,454 this year. Fully equipped shops, including a tire retreading facility, light and heavy duty repair shops, and specialized transmission, diesel and machine shops provide facilities for overhauls, preventive maintenance and repairs to the Motor Transportation Division fleet and equipment of other Commission units. The vehicle inspection facilities located within the Motor Transportation Division were used again during the year for inspection of POVs belonging to Department of Defense and Commission personnel. These facilities were also used for the inspection of all Commission

vehicles. The Transportation Section is staffed with a total of 145 motor vehicle operators in both districts, and manages a motor pool of 383 vehicles, consisting of 178 general pool, 102 replacement and 103 special purpose vehicles and equipment. This section performed an average of 4,618 monthly transportation trips during fiscal year 1992 for services ranging from transisthmian pilot trips to heavy equipment operation.

PUBLIC UTILITIES AND ENERGY

Panama Canal Commission facilities include electric power generation and distribution systems, communication systems, water purification and distribution systems, and a central chilled water air conditioning and distribution system for certain public buildings in the Pacific area.

Total Canal area energy demand during fiscal year 1992 was 538 gigawatt hours, a 0.9 percent increase from the 533 gigawatts used last year. The peak hourly demand of 85.53 megawatts, reached on April 8, 1992, shows a slight increase from the 85.1 megawatts peak reached in fiscal year 1991. Electrical power consumed for Commission operations was 65.6 gigawatt hours, 2.5 percent below the previous year. Gasoline and petroleum distillate fuel usage by the Commission during fiscal year 1992 (excluding fuel for power generation), was 5.1 million gallons, 21.4 percent higher than in fiscal year 1991. Combined fuel and electrical energy consumption by the Commission, calculated in btu's, also showed an overall increase, 14.3 percent, in comparison with fiscal year 1991.

The two water treatment and distribution systems operated by the Commission provide potable water for the Canal area including all potable water for the Commission and the U.S. military. The Pacific side system also serves portions of Panama City and suburban areas while the Atlantic side system serves the Colon metropolitan area. During fiscal year 1992, both systems supplied 3.32 billion cubic feet of potable water to consumers. Water supplied to the Republic of Panama averaged approximately 56.0 million gallons (7.5 million cubic feet) per day.

FIRE PROTECTION

The Panama Canal Commission Fire Division and the Bomberos of the Republic of Panama, in accordance with the Panama Canal Treaty of 1977, are responsible for providing fire protection, fire fighting and emergency rescue services in Canal operating areas, defense sites, and military areas of coordination, including shipboard fire fighting on all vessels in Canal area waters.

Commission responses for fiscal year 1992 totaled 7,707 compared to 6,519 for fiscal year 1991. The marine stand-by program for hazardous ships at the locks accounted for about 41 percent of the responses this year. This service is provided by Fire Division personnel with foam apparatuses on stand-by at the locks as a marine safety measure for those vessels

designated by the Marine Bureau as carrying dangerous cargos. The critical period is considered to be when a vessel is entering the locks.

There were 2,103 responses for ambulance service compared to 1,707 in fiscal year 1991. This division also responded to a total of 39 bomb threats during the year, the same number as last year. Excluding ship fires, there were 481 fires this year, an 8 percent increase over fiscal year 1991. Most incidents were grass and brush fires, which frequently occurred during the vulnerable dry season. Additional fire statistics appear in Table 16 of this report.

In accordance with the Panama Canal Treaty of 1977, formal joint training was conducted on 4 occasions with the Bomberos of the Republic of Panama as compared to 6 for last year. This figure is in addition to regularly occurring joint responses to fires and other emergencies.

CANAL PROTECTION

During fiscal year 1992, the Canal Protection Division provided security for equipment, installations, facilities, and personnel devoted to the operation, maintenance and management of the Panama Canal.

The Division also jointly patrols remote canal areas with the Panama National Police.

Considerable resources were expended safeguarding navigational aids and related equipment along the waterway. Security hardware improvements at critical installations and support facilities were made. A contract for a centralized security control system was issued.

HEALTH AND SAFETY

The Occupational Health and Safety Divisions are components of the Office of Personnel Administration. The Personnel Director is the Designated Agency Safety and Health Official. The Panama Canal Commission is committed to ensuring a safe and healthful workplace for its employees, an objective which enjoys support from all levels of Commission management.

During fiscal year 1992, the Commission experienced 354 performance-of-duty injuries/illnesses for which employees required medical attention beyond first aid, a decrease from the 375 cases in fiscal year 1991. Hearing loss cases were included in the agency statistics for the first time in fiscal year 1992, bringing the total number of performance-of-duty injuries/illnesses to 385 and the incidence rate for fiscal year 1992 to 4.4 per 100 employees; this compares to a fiscal year 1991 rate of 4.5. There were two fatalities in fiscal year 1992.

Existing workplace health and safety programs were strengthened during fiscal year 1992. Formal workplace inspections were ongoing; compliance with all aspects of the Hazard Communication Policy was stressed and the

Hazardous Materials Inventory and Material Safety Data Sheets library were computerized; the Seat Belt Policy was revitalized; and the periodic physical examination program was reinforced. The agency received a Department of Transportation award for high seat belt usage in fiscal year 1991, having achieved 85 percent, and qualified for another award in 1992. Special training and/or media information on AIDS, cholera and dengue fever were provided to employees. The joint labor/management Safety and Health Committee continued to meet regularly to maintain its valuable role in the agency's overall health and safety program. The agency's program was formally evaluated by the Federal Occupational Safety and Health Administration during fiscal year 1992.

The Commission's Drug-Free Workplace Plan continued in full effect, with incident, accident, reasonable suspicion, random and applicant drug testing; counseling, rehabilitation and referral services through the agency's Employee Assistance Program; and strict penalties for those who refused the services offered or did not refrain from drug use. Public awareness of drug and alcohol abuse prevention, identification and rehabilitation was intensified.

Counseling and clinics relating to stress management, nutrition, weight management and smoking cessation continued, resulting in a comprehensive work site health and safety promotion program for the Panama Canal Commission.

The Commission awarded a contract to assess the risks of, and prepare a contingency plan for, a hazardous materials emergency. As an outgrowth of that, the contractor conducted a workshop for managers from the various Commission elements performing health, environmental and safety functions, with the objective of developing recommendations for improving coordination, optimizing use of resources and enhancing performance in these areas.



Chapter IV

ADMINISTRATION AND STAFF

PERSONNEL FORCE EMPLOYED AND PAYROLL

At the end of fiscal year 1992, the total Isthmian force of the Commission was 8,548 compared to 8,740 in fiscal year 1991. Of the total Isthmian force, 7,301 were permanent and 1,247 temporary. Of the permanent Isthmian work force, 6,411 (87.8%) were Panamanians, 825 (11.3%) were U.S. citizens, and 65 (0.9%) were third country nationals. Seventeen persons, all U.S. citizens, were employed by the Commission in New Orleans and Washington, DC.

The total Commission payroll was \$227.2 million in fiscal year 1992 compared to \$229.5 million in fiscal year 1991. Of the total Commission fiscal year 1992 payroll, \$174.6 million was paid to non-U.S. citizen employees and \$52.6 million to U.S. citizen employees.

EQUAL OPPORTUNITY PROGRAM

The agency's fiscal year 1991 Affirmative Employment Program Report for Minorities and Women (EEO-MD-714) and the Report for the Employment of People with Disabilities (EEO-MD-713) for the U.S. citizen work force were submitted to the Equal Employment Opportunity Commission during fiscal year 1992, as required.

Formal EEO complaints continued to be processed. Black History Month, National Hispanic Heritage Month, and National Disability Employment Awareness Month were commemorated. Six-hundred and ninety employees attended Women's Week training during March. Continued emphasis was placed on the training of supervisors and managers in the EEO complaint process. One-hundred and seventy supervisors and employees attended workshops on the prevention of sexual harassment in the workplace, including attendance at a special video conference sponsored by the U.S. Office of Personnel Management. Additional training was provided to EEO counselors on the new 29 CFR 1614 regulations to become effective October 1, 1992. The Panamanian

Preference Program monitoring continued to reflect increased participation of R.P. nationals at all levels. The composition of the work force by sex, minority group and citizenship at the end of fiscal year 1992 is reflected below:

Molo			Sex			87.0%
						13.0%
		1	Minority Grou	p		
	Hispanics 66.9%	Blacks 21.1%	Whites 9.7%	Orientals 1.8%	Indians 0.5%	

PUBLIC AFFAIRS

The Office of Public Affairs is responsible for handling all public affairs, orientation services and informational activities of the Panama Canal Commission, both locally and internationally. In this connection, through the Commission publication The Panama Canal Spillway, local and international press releases (including simultaneous worldwide distribution by computer), video news releases and documentaries, press releases (including simultaneous worldwifilms and exhibits, and matters of interest were disseminated to the work force, the public at large and the shipping industry. A digest of items in the local press of interest to Commission managers was compiled and distributed daily.

The Graphic Branch supports the public affairs effort by providing a broad range of still photo and audiovisual support services throughout the Commission. This year it continued to expand its program of producing audiovisual presentations to fill an accelerated need by Commission officials who provide briefings to Panama government officials on matters related to the turnover of the Canal to Panama in 1999 and to Commission board members on current operations and future plans.

Local and international news media interest focused on the turnover of the Canal to Panama in 1999, the Gaillard Cut widening project and the transit of hazardous cargo through the Canal. Other areas of interest were general Canal operations, the tolls increase, the Canal watershed and the linehandler scheduling study.

The Office of Public Affairs designed, produced, and operated Commission exhibits for a number of activities and functions during the year. "Meeting the Challenge" was the theme used to highlight the maintenance, modernization and improvement programs at the Canal designed to ensure its continued safe and efficient operation, both in the near term and post-2000. EXPOCOMER, a business exposition held in Panama City, and the David International Fair, held annually in the Chiriqui Province of Panama, were among the more noteworthy local

exhibits. This office also participated with exhibits in two cruise shipping conferences and exhibitions in the United States, one for owners and operators and one for the travel industry.

The Canal's 78th anniversary was highlighted with a photo exhibit on the construction of the Canal Administration Building displayed in the building's rotunda, and a special feature-length video was produced relating the history of Gaillard Cut construction with the current Cut Widening Program. Support was provided for Panama's participation in Spain's Expo Sevilla with informational materials and videos, as well as briefings on Canal operations for Panamanian exhibit hosts.

The Orientation Service, located at Miraflores Locks, welcomed 395,937 visitors to Miraflores and Gatun locks this year and conducted 976 VIP tours.

OMBUDSMAN

The Office of the Ombudsman was established pursuant to implementing legislation of the Panama Canal Treaty of 1977. The office responds to employees' and dependents' complaints, grievances, and requests for information; and channels many issues to the proper authorities for processing under existing statutes or administrative regulations. Generally, the Office of the Ombudsman investigates administrative problems, inefficiencies, omissions and policy conflicts existing within the various offices of the Panama Canal Commission, and between the Commission and other U.S. Government agencies on the Isthmus of Panama resulting from the treaty. The office provides the widest latitude possible for handling problems affecting employee morale and the quality of life.

The office maintains close contact with officers of the three Residents Advisory Committees as a means to assure close communication between the Commission and these community groups on matters of concern to residents in Commission housing areas.

INDUSTRIAL RELATIONS

A new three-year collective bargaining agreement covering employees in the firefighters bargaining unit was negotiated between April and July 1992. Additionally, the non-professional collective bargaining agreement, which covers 87 percent of the Commission's work force, was renewed for a three-year period commencing September 16. This occurred pursuant to an automatic renewal provision when neither party served notification during the contractual window of an intent to amend or modify the agreement.

In January, the FLRA ruled on exceptions the Commission filed to an arbitration award rendered in February 1991 involving firefighters. The Commission succeeded in overturning the largest of the two major cost items of the award. Costs saved (not including interest payment required under the Back Pay Act) were estimated at \$640K. The remaining cost item

was estimated at \$170K. Subsequent efforts to obtain FLRA reconsideration were unsuccessful and compliance with the award was ongoing at fiscal year end. The total cost including interest payments approximated \$225K.

Last year, it was reported that exceptions were pending to an FLRA administrative law judge decision which dismissed an unfair labor practice complaint against the Commission for unilaterally terminating access by nonpreference-eligible employees to the agency's administrative procedure for appealing adverse actions as an option to the negotiated grievance procedure. (Access to the negotiated grievance procedure was not affected by the Commission's action.) In February, the FLRA issued a decision finding, contrary to the judge, that the disputed action constituted an unfair labor practice. The ordered remedy includes a retroactive requirement which could result in hearings for over 300 employees at a cost to the Commission of over \$150K. Equally important, the FLRA also held that as a matter of law such Commission employees do not have the right to challenge adverse actions under the negotiated grievance procedure. The Commission filed a motion for reconsideration and a stay of the decision. The motion was denied in early September. The Commission requested the Department of Justice to seek judicial review and that request was pending at fiscal year end.

Two notable union initiatives this year generated a considerable amount of work for the Industrial Relations office. One concerned a request from the exclusive representative of the nonprofessional unit to increase the amount of official time. It was argued that an increase was necessary to facilitate more effective union participation in discussions with public officials in Panama concerning the future of the Canal -- an activity which was urged by the Personnel Committee of the Board of Directors at a 1990 meeting with labor organizations in Miami, Florida. A 3-phase trial plan was conceived to increase incrementally the amount of official time and the number of participating stewards. Progression from one phase to another was contingent upon the Commission's satisfaction. The fiscal year ended during the third phase of the trial period.

The other union initiative concerned a demand in February by the pilots union to negotiate an increase in basic pay. The union's proposal would provide the highest step pilot with a base pay of "at least \$175,000." The Commission declined on the basis of a current decision by the U.S. Court of Appeals for the Fourth Circuit which holds that, in such circumstances as exist in the Commission's case, unions do not have the right to initiate midterm bargaining. The Commission also expressed good faith doubts about the negotiability of the union's proposal. Although the union did not

formally challenge this decision, it continued through the end of the fiscal year to vigorously pursue in a variety of arenas the matter of obtaining a pay raise.

Three different exclusive representatives invoked arbitration a total of 10 times this fiscal year. Only one decision was rendered, however, and it was favorable to the Commission. Adverse and disciplinary actions were split evenly at 4 apiece. One of the disciplinary cases was eventually settled. The remaining case involved the performance evaluation of an employee who is also the subject of one of the disciplinary cases. The former case was held in abeyance at the union's request pending the decision of the latter, which was still pending at fiscal year end. Several other disputes were settled during the year but at a point before arbitration was invoked. Three other cases carried over from the prior fiscal year were disposed of this year. One was settled and the other two were dismissed when the union failed to prosecute them after the employee who was the subject of both cases retired.

GENERAL COUNSEL

During fiscal year 1992, twenty admiralty claims totalling \$17,533,576 were settled in the amount of \$11,293,533. The single largest claim ever paid was for the ITB MOKU PAHU in the amount of \$6.5 million. Thirty-eight unsettled marine accident claims, in the amount of approximately \$20,376,165, remained at the close of this fiscal year.

Currently, four cases are pending in U.S. District Court for the Eastern District of Louisiana. The total of the amounts claimed is \$7.8 million.

The new Standards of Ethical Conduct promulgated August 7, 1992 are being implemented locally through an aggressive training program scheduled to completely train all Commission employees by February 3, 1993. Additionally, the Commission has initiated the Confidential Financial Disclosure Reporting System.

The General Counsel's office monitored approximately 150 cases involving garnishment for alimony and child support, and 130 vehicle accident cases of which approximately 50 may result in claims against the Commission.

Despite the August 30, 1991 decision of the Corps of Engineers Board of Contract Appeals that denied all claims brought by Sosa y Barbero Constructores, S.A. and Compañía Internacional de Seguros, S.A., the contract appeal continued during the entire fiscal year. The co-appellants filed a motion for reconsideration with the Board, which the Commission opposed and the Board denied in December 1991. With over \$9 million dollars at stake, the co-appellants appealed the Board's final decision to the United States Court of Appeals for the Federal Circuit in January, 1992. Shortly after the fiscal year's end, on October 14, 1992, the court issued a final decision affirming in all respects the ruling by the Board of Contract Appeals. No further appeal is anticipated.

Chapter V

FINANCIAL REPORT

FINANCIAL STATEMENTS FOR THE FISCAL YEAR ENDED SEPTEMBER 30, 1992

The financial statements of the Panama Canal Commission, appearing as Tables 1 through 4, with accompanying notes, present the financial position of the Commission at September 30, 1992 and the result of its operations for the fiscal year then ended.

The accounts and statements of the Panama Canal Commission have been examined by the United States General Accounting Office. Detailed audit reports of the United States General Accounting Office are directed to the Congress and are presented as Congressional documents.

Summary information concerning the operating results and capital expenditures follows:

RESULTS OF OPERATIONS

The Commission ended fiscal year 1992 with a net operating loss of \$3.6 million, compared to net operating revenue of \$3.6 million for fiscal year 1991. The net operating loss for 1992 was deferred as unearned costs to be recovered from subsequent revenues.

CAPITAL EXPENDITURES

Accued capital expenditures for the year amounted to \$26.3 million. The principal expenditures were \$8.2 million for replacement and improvements to facilities, \$3.1 million for the widening and straightening of Gaillard Cut, \$2.9 million for improvements to the electrical power and communication systems, \$2.0 million for the replacement of motor vehicles, \$1.9 million for the replacement of launch and launch engines, \$1.1 million for water system improvements, and \$1.1 million for replacement of an anchor barge.

Table 1.—Statement of Financial Position September 30, 1992 and 1991 (Dollars in thousands)

Assets	1992	1991
PROPERTY, PLANT AND EQUIPMENT: At cost	\$1,038,128	\$1,022,626
Less accumulated depreciation and valuation allowances	548,905	525,303
	489,223	497,323
CURRENT ASSETS:	101540	107.105
Cash	124,542 9,567	127,135 11,687
Storehouse, less allowance for obsolete and excess inventory of \$6,200 and \$6,467, respectively FuelOther	28,708 3,479 235	28,732 5,168 205
	166,531	172,927
DEFERRED CHARGES:		
Early retirement benefits	106,008 54,346	121,152 59,530
Retirement benefits to certain former employees Unrecovered costs due from subsequent revenues	4,673 	5,178
	168,596	185,860
TOTAL ASSETS	\$ 824,350	\$ 856,110

The accompanying notes are an integral part of this statement.

Table 1.—Statement of Financial Position September 30, 1992 and 1991 (Dollars in thousands)

Capital and Liabilities	1992	1991
CAPITAL:		
Investment of the United States Government: Interest-bearing (9.786% and 9.949%,		
respectively)	\$122,271 <u>349,980</u>	\$120,557 352,622
	472,251	473,179
CURRENT LIABILITIES:		
Accounts payable:	14.404	12 207
Commercial vendors and other	14,484 2,172	17,706 1,905
U.S. Government agencies	9,060	8,827
Republic of Fanadia	25,716	28,438
Accrued liabilities:		
Employees' leave	54,257	50,590
Salaries and wages	6,767	4,826
Early retirement benefits	15,144	15,144
Compensation benefits for work injuries	9,093	8,460
Retirement benefits to certain former employees	626	692
Employees' repatriation	731	785
Marine accident claims	12,593	21,034
Panama		875
Other	2,148	1,969
	101,359	104,375
Other current liabilities:		
Working capital contributions	2,000	
Capital contributions-unexpended		9,079
Other	1,200	2,100
	3,200	11,179
	130,275	143,992
DEFERRED CREDIT:		
Capital contributions being amortized	62,507	57,760
LONG-TERM LIABILITIES AND RESERVES:		
Early retirement benefits	90,864	106,008
Compensation benefits for work injuries	45,253	51,070
Retirement benefits to certain former employees	4,047	4,486
Employees' repatriation	5,762	6,121
Lock overhauls	2,082	1,957
Marine accidents and casualty losses	8,000	8,000
Floating equipment overhauls	3,309	3,537
	159,317	181,179
TOTAL CAPITAL AND LIABILITIES	\$824,350	\$856,110

The accompanying notes are an integral part of this statement.

Table 2.—Statement of Operations Fiscal Years Ended September 30, 1992 and 1991 (Dollars in thousands)

OPERATING REVENUES:	1992	1991
Tolls revenue	\$368,663	\$374,625
Less - Working capital contributions	(2,000)	
- Capital contributions		(5,929)
Net tolls revenue	366,663	368,696
Other revenues	138,913	137,725
Total operating revenues	505,576	506,421
OPERATING EXPENSES:		
Payments to Republic of Panama:		
Public services	10,000	10.000
Fixed annuity	10,000	10,000
Tonnage	66,563	67,593
Tolliage	86,563	87,593
	,	,
Maintenance of channels, dams and spillways	40,338	35,628
Navigation service and control	84,768	86,221
Locks operation	51,766	53,778
General repair, engineering and maintenance services	25,098	25,775
Supply and transportation services	19,425	23,851
Utilities	35,932	31,772
Administrative and general	80,812	78,576
Depreciation	27,535	22,685
Fire and facility protection	14,707	13,351
Interest on interest-bearing investment	11,492	11,544
Other	30,709	32,059
Total amounting sympasses	509,145	502,833
Total operating expenses	309,143	302,033
Net Operating Revenue (Loss)	(3,569)	3,588
Recovery of prior year losses		(2,713)
		875
NET UNEARNED COSTS TO BE RECOVERED		
FROM SUBSEQUENT REVENUES	<u>\$ (3,569)</u>	<u></u>
NET OPERATING REVENUE PAYABLE TO REPUBLIC OF PANAMA		\$ 875

The accompanying notes are an integral part of this statement.

Table 3—Statement of Changes in the Investment of the United States Government Fiscal Years Ended September 30, 1991 and 1992 (Dollars in thousands)

	199 Invested		
	Interest- Bearing	Non-Interest- Bearing	Total
INVESTMENT AT OCTOBER I, 1990	\$133,176	\$340,663	\$473,839
CHANGES IN INVESTMENT:			
Expenditures from Panama Canal Revolving Fund Tolls and other receipts deposited into Panama	503,009	(503,009)	
Canal Revolving Fund	(515,001)	515,001 (33)	(33)
Adjustments for properties previously transferred to Republic of Panama	(63)		(63)
Property transferred to other U.S. Government agencies	(564)	<u></u>	(564)
	(12,619)	11,959_	(660)
INVESTMENT AT SEPTEMBER 30, 1991	\$120,557	\$352,622	\$473,179
	199 Invested		
			Total
INVESTMENT AT OCTOBER 1, 1991	Invested Interest-	Capital Non-Interest-	Total \$473,179
INVESTMENT AT OCTOBER 1, 1991	Invested Interest- Bearing	Capital Non-Interest- Bearing	
CHANGES IN INVESTMENT: Expenditures from Panama Canal Revolving Fund	Invested Interest- Bearing	Capital Non-Interest- Bearing	
CHANGES IN INVESTMENT:	Invested Interest- Bearing \$120,557	Capital Non-Interest- Bearing \$352,622	
CHANGES IN INVESTMENT: Expenditures from Panama Canal Revolving Fund Tolls and other receipts deposited into Panama Canal Revolving Fund Net change in undeposited receipts Property transferred to the Republic of Panama	Invested Interest-Bearing \$120,557	Non-Interest-Bearing \$352,622 (511,772) 509,091	\$473,179
CHANGES IN INVESTMENT: Expenditures from Panama Canal Revolving Fund Tolls and other receipts deposited into Panama Canal Revolving Fund	Invested Interest- Bearing \$120,557 511,772 (509,091)	Non-Interest-Bearing \$352,622 (511,772) 509,091	\$473,179 39
CHANGES IN INVESTMENT: Expenditures from Panama Canal Revolving Fund Tolls and other receipts deposited into Panama Canal Revolving Fund Net change in undeposited receipts Property transferred to the Republic of Panama	Invested Interest- Bearing \$120,557 511,772 (509,091)	Non-Interest-Bearing \$352,622 (511,772) 509,091	\$473,179 39 (812)
CHANGES IN INVESTMENT: Expenditures from Panama Canal Revolving Fund Tolls and other receipts deposited into Panama Canal Revolving Fund	Invested Interest-Bearing \$120,557 511,772 (509,091) (812)	Non-Interest-Bearing \$352,622 (511,772) 509,091	
CHANGES IN INVESTMENT: Expenditures from Panama Canal Revolving Fund Tolls and other receipts deposited into Panama Canal Revolving Fund	Invested Interest-Bearing \$120,557 511,772 (509,091) (812) (6) (149)	Non-Interest- Bearing \$352,622 (511,772) 509,091 39	\$473,179 39 (812) (6)

The accompanying notes are an integral part of this statement.

Table 4.—Statement of Cash Flows
Fiscal Years Ended September 30, 1992 and 1991
(Dollars in thousands)

CASH FLOWS FROM OPERATING ACTIVITIES:	1992	1991
Net operating revenue (loss)	\$ (3,569)	\$ 3,588
Working capital contributions	2,000	
Adjustments to reconcile net revenue (loss) to net cash provided by operating activities: Depreciation	27,535 (840) 2,120 1,713 (29) (5,727) 24,772	22,685 2,455 1,644 6,100 14 4,453 37,351
Net cash provided by operating activities	23,203	40,939
CASH FLOWS FROM INVESTING ACTIVITIES:		
Capital contributions	(25,796)	5,929 (34,214)
Net cash used in investing activities	(25,796)	(28,285)
Net increase/(decrease) in cash	(2,593)	12,654
Cash, beginning of year	127,135	114,481
CASH, END OF YEAR	<u>\$124,542</u>	<u>\$127,135</u>
SUPLEMENTAL DISCLOSURE OF CASH FLOW INFORMATION:		
Cash paid during year for interest	<u>\$ 11,691</u>	<u>\$ 11,562</u>

The accompanying notes are an integral part of this statement.

NOTES TO FINANCIAL STATEMENTS

The Panama Canal Commission ("Commission") is an agency of the Executive Branch of the United States Government, provided for by the Panama Canal Treaty of 1977, ("Treaty") and established by the Panama Canal Act of 1979 ("Act") enacted September 27, 1979. The Commission was established to carry out the responsibilities of the United States with respect to the Panama Canal under the Treaty. In fulfilling these obligations, the Commission manages, operates, and maintains the Canal, its complementary works, installations, and equipment, and provides for the orderly transit of vessels through the Canal. The Commission will perform these functions until the Treaty terminates on December 31, 1999, at which time the Republic of Panama will assume full responsibility for the Canal, which shall be turned over in operating condition and free of liens and debts, except as the two Parties may otherwise agree.

The operation of the waterway is conducted on a self-financing basis. The Commission is expected to recover through tolls and other revenues all costs of operating and maintaining the Canal, including interest, depreciation, working capital, capital for plant replacement, expansion and improvements, and payments to the Republic of Panama for public services and annuities. Revenues from tolls and all other sources are deposited in the U.S. Treasury in an account known as the Panama Canal Revolving Fund. The resources in this fund are available for continuous use and serve to finance Canal operating and capital programs which are reviewed annually by the Congress. Information on obligations and outlays of the Commission's Revolving Fund are included in the Budget of the United States Government.

1. Summary of Significant Accounting Policies.

A summary of significant accounting policies follows:

- a. Accounting and Reporting. The accounts of the Commission are maintained pursuant to the Accounting and Auditing Act of 1950. Under this Act, the Comptroller General of the United States prescribes the principles, standards and related requirements to be met. The Commission maintains its accounts in accordance with generally accepted accounting principles and follows STATEMENT OF FINANCIAL ACCOUNTING STANDARDS Nº 71, "Accounting for the Effects of Certain Types of Regulation."
- b. Reclassifications. Certain amounts for fiscal year 1991 have been reclassified to conform with the current financial statement presentation.
- c. Cost Recovery. The basis for tolls rates ("statutory tolls formula") is prescribed in section 1602(b) of the Act and provides:

"Tolls shall be prescribed at rates calculated to produce revenues to cover as nearly as practicable all costs of maintaining and

operating the Panama Canal, together with the facilities and appurtenances related thereto, including unrecovered costs incurred on or after the effective date of this Act, interest, depreciation, working capital, payments to the Republic of Panama pursuant to paragraph 5 of Article III and paragraph 4(a) and (b) of Article XIII of the Panama Canal Treaty of 1977, and capital for plant replacement, expansion, and improvements. Tolls shall not be prescribed at rates calculated to produce revenues sufficient to cover payments to the Republic of Panama pursuant to paragraph 4(c) of Article XIII of the Panama Canal Treaty of 1977."

Unrecovered costs for any year are to be recovered from revenues in subsequent years.

d. Property, Plant and Equipment. Property, plant, and equipment are recorded at cost. The cost of minor items of property, plant, and equipment is charged to expense as incurred. Administrative and other related general expenses are recovered currently and not capitalized.

Depreciation of Commission property, plant, and equipment is provided using the straight-line method over the estimated service lives of the depreciable assets. Composite depreciation is provided for premature plant retirements. Provisions for depreciation, expressed as an annual percentage of the cost of average depreciable property, plant, and equipment in service, were 3.41 percent in 1992 and 2.90 percent in 1991.

The recurring costs of dredging the waterway are charged to expense. Non-recurring dredging costs for substantial improvements and betterments to the waterway are considered additions to plant and are capitalized and depreciated over their estimated service lives.

- e. Capital Contributions. The Board of Directors may program a portion of tolls in excess of depreciation for plant replacement, expansion, or improvements. Such funds are considered capital contributions from Canal users. Upon utilization, these contributions are amortized through an offset to depreciation expense in an amount calculated to approximate the depreciation on assets acquired with such contributions. In fiscal year 1992, no amount was programmed. For fiscal year 1991, \$5.9 million were programmed.
- f. Working Capital. The Board of Directors may program a portion of tolls as contributions for working capital. Such funds are used to finance increases in amounts for storehouse inventories, primarily as a result of inflation. Working capital contributions in fiscal year 1992 were \$2.0 million. No contributions were programmed in fiscal year 1991.
- g. Accounts Receivable. Uncollectible accounts are recognized as a reduction in revenue when written off.
- h. Inventories. Operating materials and supplies are stated at average cost, plus cost of transportation. Allowances are provided for the estimated cost of obsolete and excess stock.

i. Retirement Benefits. Employer contributions to the United States Civil Service Retirement System, the Federal Employee Retirement System, and the Republic of Panama Social Security System are charged to expense when paid. The Commission has no liability for future payments to employees under these systems.

Non-United States citizen employees, who retired from predecessor agencies prior to October 5, 1958, receive benefits under a separate annuity plan. Payments made under this plan are recorded as a current year expense. Annual amounts expended for this plan were \$1.0 million and \$1.1 million in fiscal years 1992 and 1991, respectively. The liability for future annuity payments is reflected in the Statement of Financial Position as "Retirement benefits to certain former employees" and an equal amount is recorded as a deferred charge.

As required by the Act, the Commission is liable for the increase in the unfunded liability of the United States Civil Service Retirement Fund for benefits payable to employees and their survivors under the early retirement provisions of the Act. The deferred charge and liability recorded in these statements reflect the payments due to the Office of Personnel Management over the life of the Treaty. The annual installment of \$15.1 million to liquidate the increased liability is determined by the Office of Personnel Management. The gross amount to be recovered from tolls over the remaining life of the Treaty was \$106.0 million as of fiscal year 1992 and \$121.2 million as of fiscal year 1991.

- j. Reserves. Reserves required to normalize expenses for incorporation in the tolls process are provided for through annual charges to operations. These reserves cover such irregular costs as lock overhauls, floating equipment overhauls, probable losses from marine accidents, fire, damages other than fire, public liability, and other casualties.
- k. Housing Use Rights. No monetary value is assigned to the rights granted to the United States Government by the Republic of Panama to use Canal Area housing transferred to the Republic of Panama under the terms of the Treaty. The cost to manage, maintain and provide livability improvements to these quarters is charged to expense. Rental income is included in other revenues.
- l. Compensation Benefits for Work Injuries. The Federal Employees' Compensation Act (FECA) provides compensation for performance of duty injuries for eligible employees. The costs of the FECA program are recognized over the remaining life of the Treaty.

2. Budgetary Resources.

- a. Cash, accounts receivable, and the borrowing authority are the resources used by the Commission to determine its solvency position. Incurring obligations in excess of the solvency position would be a violation of the Antideficiency Act.
 - b. The Commission has authority to borrow funds from the U.S.

Treasury up to \$100.0 million. No funds were borrowed during fiscal years 1992 and 1991.

3. Unrecovered Costs due from Subsequent Revenues.

The \$3.6 million net loss from fiscal year 1992 operations was deferred as an unearned cost to be recovered from subsequent revenues. As such, it must be deducted from any future net operating revenue due the Republic of Panama.

4. Net Revenue Payable to Republic of Panama.

As of September 30, 1989, cumulative unrecovered costs from prior years operations were \$9.7 million. Of that amount, \$7.0 million was recovered in fiscal year 1990 and \$2.7 million was recovered in fiscal year 1991. The balance of net operating revenues earned in fiscal year 1991 of \$0.9 million was paid to the Republic of Panama in April 1992.

5. Allowances for Obsolete and Excess Stock.

The allowances for obsolete and excess stock provide for: (1) the specific disposal of individual inventory items likely to occur; and (2) the systematic cost recognition for inventory items retained for possible use, but whose actual use most often does not occur. During fiscal year 1991, a comprehensive evaluation of inventory items that are infrequently issued, but retained for possible use, was completed. This evaluation indicated a requirement for an allowance of \$5.6 million for these items. The evaluation completed for fiscal year 1992 indicated reduced requirement of \$5.2 million and the allowance was adjusted accordingly.

6. Compensation Benefits for Work Injuries.

The Commission administers a program to compensate certain employees for death and disability resulting from performance of duty injuries or illnesses as set forth in the Federal Employees' Compensation Act. All United States citizen employees are eligible for coverage, as are non-United States citizen employees hired prior to October 1, 1979. As provided by FECA, employees and certain dependents are beneficiaries for various periods that can extend to life.

The liability and deferred charge recorded in these statements reflect the payments due to a Department of Labor fund established pursuant to Public Law 100-705. The Department of Labor will be reimbursed from this fund for all expected future payments for accidents, adjusted for inflation and interest earned. An evaluation, as of September 30, 1991, was prepared by an independent actuarial firm. The values in that report were used to adjust the assets and liabilities at year-end 1991. The report also served as the basis for determining the adequacy of the assets and liabilities at year-end 1992. The gross amount to be recovered from tolls over the remaining life of the Treaty to retire this liability is \$54.3 million in fiscal year 1992 and \$59.5 million in fiscal year 1991.

7. Interest—Bearing Investment of the United States Government.

The interest-bearing investment of the United States Government in the Panama Canal is determined based on section 1603(a) of the Act. The interest-bearing investment of the United States Government was \$122.3 million at September 30, 1992 and \$120.6 million at September 30, 1991.

8. Contingent Liabilities and Commitments.

The Commission is a defendant in certain legal actions related to personal injury, employment disputes, and other matters related to the Commission's business. In the opinion of management, the settlement of these legal actions will not have a material adverse effect on the financial position of the Commission.

Commitments under uncompleted construction contracts and unfilled purchase orders amounted to \$44.4 million at September 30, 1992 and \$31.7 million at September 30, 1991.

Cash and negotiable securities held by United States depositories for the Commission to guarantee payment by third parties of their obligations were \$15.3 million and \$14.5 million at September 30, 1992 and 1991, respectively.

The Treaty provides that an annual amount of up to \$10.0 million per year be paid to the Republic of Panama out of operating revenues to the extent that such revenues exceed expenditures. If the operating revenues in any year do not produce a surplus sufficient to cover this payment, the unpaid balance shall be paid from operating surpluses in future years. The balance contingently payable to the Republic of Panama amounted to \$120.2 million and \$110.2 million at September 30, 1992 and 1991, respectively. However, as set forth in the Treaty and in the Act, nothing shall be construed as obligating the United States Government to pay, after the date of the termination of the Treaty, any unpaid balance accumulated before such date.

Chapter VI

STATISTICAL TABLES

Shipping Statistics

Table 1.—Panama Canal Traffic—Fiscal Years 1983 Through 1992

	Total traffic				assessed tolls onnage basis	Traffic assessed tolls on displacement tonnage basis	
	Number		Long tons	Number	Panama	Number	Displace-
Fiscal year	of transits	Tolls	of cargo	of transits	Canal net tonnage	of tr an sits	ment tonnage
	OCEA	NGOING CO	MMERCIA	L TRA	FFIC ¹		
1983	11,707	\$285,983,805	145,590,759	11,668	169,503,918	39	132,431
1984	11,230	286,677,844	140,470,818	11,199	162,335,342	31	116,335
1985	11,515	298,497,802	138,643,243	11,498	168,941,997	17	86,623
1986	11,925	321,073,748	139,945,181	11,901	182,750,830	24	73,631
1987	12,230	328,372,714	148,690,380	12,206	186,416,485	24	130,129
1988	12,234	337,866,211	156,482,641	12,209	191,506,903	25	106,599
1989	11,989 11,941	327,850,613 353,725,982	151,636,113	11,964	185,769,083	25 37	101,710
1990	12,572	372,279,573	157,072,979 162,695,886	11,904 12,544	181,604,268 191,786,855	28	153,514 120,375
1992	12,454	365,716,456	159,272,618	12,425	188,516,426	29	117,403
OCEANGOING U.S. GOVERNMENT TRAFFIC 1							
1983	125	\$ 1,721,925	354,873	77	812,840	48	350,699
1984	137	2,388,272	329,607	88	1,131,865	49	410,682
1985	129	2,223,938	259,524	85	1,148,311	44	248,967
1986	85	1,553,037	176,853	53	708,616	32	309,161
1987	78	1,384,125	205,701	46	662,286	32	239,023
1988	69	1,361,393	296,140	46	714,055	23	129,545
1989	74	1,806,539	224,121	62	994,711	12	103,020
1990	91	1,707,864	248,442	63	821,340	28	193,160
1992	173 167	2,214,170 2,790,452	516,130 341,256	69 96	902,085 1,295,153	104 71	458,899 405,986
	FF	REE OCEAN	GOING TR	AFFIC 1	2		
1983	14		2,504	9	9,119	5	5,986
1984	17			4	2,224	13	21,025
1985	10		20	4	2,731	6	8,771
1986	13			1	556	12	20,759
1987	5		5	4	2,224	1	1,300
1988	15			6	3,312	9	16,765
1989	12			6	3,312	6	9,709
1990	20	• • • • • • • • •	6	4	2,218	16	30,530
1991	18 15			4	2,218 2,206	14 11	24,702 18,508
	TC	TAL OCEA	NGOING T	RAFFIC	•		,
1983	11,846	\$287,705,730	145,948,136	11,754	170,325,877	92	489,116
1984	11,384	289,066,116	140,800,425	11,754	163,469,431	93	548,042
1985	11,654	300,721,740	138,902,787	11,587	170,093,039	67	344,361
1986	12,023	322,626,785	140,122,034	11,955	183,460,002	68	403,551
1987	12,313	329,756,840	148,896,086	12,256	187,080,995	57	370,452
1988	12,318	339,227,604	156,778,781	12,261	192,224,270	57	252,909
1989	12,075	329,657,153	151,860,234	12,032	186,767,106	43	214,439
1990	12,052	355,433,846	157,321,427	11,971	182,427,826	81	377,204
1991	12,763	374,493,743	163,212,016	12,617	192,691,158	146	603,976
1992	12,636	368,506,908	159,613,874	12,525	189,813,785	111	541,897

Table 1.—Panama Canal Traffic—Fiscal Years 1983 through 1992 (Continued)

			Total traffic	;		assessed tolls onnage basis	on disp	sessed tolls lacement ge basis
	Number			Long tons	Number	Panama	Number	Displace-
Fiscal year	of transits		Tolls	of	of	Canal net	of	ment
yeur				cargo	transits	tonnage	transits	tonnage
	SM	[AL	L COM	MERCIAL T	RAFFIC	C 3		
1983	810	\$	73,887	669	810	48,033		
1984	802	-	76,921	652	800	48,008	2	145
1985	793		73,710	468	792	45,694	Ī	110
1986	912		89,577	3,704	904	55,249	8	470
1987	852		90,829	3,282	852	55,827		
1988	844		79,805	1,422	842	49,245	2	64
1989	997		96,158	8,311	996	60,156	1	430
1990	1,017		115,180	1,497	1,016	66,999	1	98
1991	1,079		118,675	537	1,077	67,982	2	64
1992	1,260		137,318	1,250	1,258	77,747	2	304
	SMA	LL	U.S. GOV	VERNMENT	TRAF	FIC ³		
1983	242	\$	11,406	5	12	332	230	11,177
1984	241		11,998		8	336	233	11,282
1985	273		12,464		15	773	258	11,113
1986	316		17,840		20	627	296	16,407
1987	236		11,106		25	987	211	9,572
1988	246		11,917		21	901	225	10,375
1989	287		12,316		13	738	274	11,018
1990	240		8,931		23	903	217	6,684
1991	248		12,319		12	654	236	10,065
1992	231		18,278	81	28	3,027	203	11,753
		SI	MALL FI	REE TRAFF	FIC 2 3			
1983	56			8	39	2,321	17	2,010
1984	96			59	86	4,637	10	1,360
1985	46			3	32	1,721	14	1,103
1986	27			80	20	1,371	7	674
1987	43			57	26	1,451	17	1,012
1988	33		• • • • • • •		15	1,081	18	1,189
1989	30	٠.	• • • • • • •	3	14	878	16	1,141
1990	16	• •	• • • • • • •	• • • • • • • • • • •	. 5	249	11	800
1991	18	• •	• • • • • • • •		13	568	.5	545
1992	21	• •	• • • • • • • •	19	11	932	10	792
	TO	ΓΑΙ	PANAN	MA CANAL	TRAFF	IC		
1983	12,954		7,791,023	145,948,818	12,615	170,376,563	339	502,303
1984	12,523		9,155,035	140,801,136	12,185	163,522,412	338	560,829
1985	12,766		0,807,914	138,903,258	12,426	170,141,227	340	356,687
1986	13,278		2,734,202	140,125,818	12,899	183,517,249	379	421,102
1987	13,444		9,858,775	148,899,425	13,159	187,139,260	285	381,036
1988	13,441		9,319,326	156,780,203	13,139	192,275,497	302	264,537
1989	13,389		9,765,627	151,868,548	13,055	186,828,878	334	227,028
1990	13,325		5,557,957	157,322,924	13,015	182,495,977	310	384,786
1991	14,108		4,624,737	163,212,553	13,719	192,760,362	389	614,650
1992	14,148	36	8,662,504	159,615,224	13,822	189,895,491	326	554,746

¹ Oceangoing traffic includes ships of 300 net tons and over, Panama Canal measurement, or of 500 displacement tons and over on vessels paying tolls on displacement basis (dredges, warships, etc.).

² Free traffic includes ships of the Colombian and Panamanian Governments and ships transiting for repair by the Commission.

³ Includes vessels under 300 net tons, Panama Canal measurement (or under 500 displacement tons for vessels assessed on displacement tonnage).

Table 2.—Oceangoing Commercial Traffic by Months—Fiscal Years 1992 and 1991

	Number of Transits	Fransits	Panama Cana	Panama Canal Net Tonnage	Long Tons of Cargo	of Cargo	Tolls	
	1991-92	16-0661	76-1661	16-0661	76-1661	16-0661	76-1661	16-6661
October	1,005	1,057	16,128,253	16,707,635	12,898,296	13,958,989	\$ 31,195,525	\$ 32,363,567
November	959	1,031	15,594,411	16,880,588	12,792,743	13,450,705	30,200,942	32,624,748
December	1,007	1,012	15,754,891	16,476,713	13,718,866	13,990,720	30,603,865	32,203,919
January	1,102	1,069	16,616,079	16,380,900	13,989,270	12,765,155	32,148,424	31,672,292
February	1,042	1,082	15,253,832	16,238,059	12,715,319	12,973,905	29,655,425	31,441,967
March	1,186	1,177	16,632,396	16,753,382	13,947,358	14,224,070	32,287,473	32,544,260
April	1,107	1,065	15,923,614	15,176,965	14,155,296	13,192,667	31,114,174	29,673,759
May	1,061	1,042	15,880,697	15,492,825	13,342,166	13,511,448	30,791,717	30,126,362
June	866	1,015	15,103,200	15,042,574	13,094,757	13,665,432	29,289,724	29,168,535
July	1,003	1,021	15,301,563	15,803,262	13,948,067	14,441,553	29,892,181	30,954,441
August	1,006	1,021	15,708,951	16,072,796	12,032,957	13,649,501	30,159,514	31,004,138
September	826	980	14,618,539	14,761,156	12,637,523	12,871,741	28,377,492	28,501,584
Total	12,454	12,572	188,516,426	191,786,855	159,272,618	162,695,886	\$365,716,456	\$372,279,573
Average per month	1,038	1,048	15,709,702	15,982,238	13,272,718	13,557,991	13,557,991 \$ 30,476,371 \$ 31,023,298	\$ 31.023.298

NOTE: The above includes only commercial vessels of 300 net tons and over, Panama Canal measurement, or of 500 displacement tons and over on vessels paying tolls on a displacement tonnage basis. Statistics on these vessels, except as relates to displacement tonnage, have been included in the table above.

Table 3.—Canal Traffic1 by Flag of Vessel—Fiscal Year 1992

Measured tonnage Num-Panama Long ber of Canal Registered tons of Flag transite gross 2 Talls net cargo Antigua-Barbuda..... 30 117,228 132,862 \$ 234,762 76.081 Argentina 2 8,420 12,502 15,198 190 37,253 44,154 1 74,879 19.497 Austria 142,306 6 171,334 274,382 47,888 19,474,237 792 9.907,617 11,588,244 7,265,859 2 30,244 24,518 49,281 21,521 Barbados 2 5,836 7,778 11,730 5,172 Belgium..... 3 17,802 20.824 13 20,458 15,486 38,092 10,329 11,988 1 15,092 24,096 15,160 Bolivia..... 84,330 967,754 80,571 5 41,955 491,919 49,185 53,783 602,200 52,523 Brazil..... 28 588,797 Bulgaria 3 40,085 46,843 Canada 53,305 11 42.873 87,872 3,076 21,327 23,081 1 42,867 35,277 Chile 96 940,837 1,050,098 1,870,863 1,133,994 Colombia 112 693,319 665,361 1,365,460 262,447 487,337 559,888 968,272 71 511,796 8,205,435 237,384 5,634,332 9,508,778 15,903,640 709 8,922,657 255,113 Czechoslovakia 15 286,854 453,582 Denmark 268 6,959,314 11,229,494 4,087,308 1,120 2,462,527 74,293 2,251 4,784,385 140,271 598 52 Ecuador 331 2,793,930 1.161.445 Egypt..... 92,062 86,825 Estonia 2 13,411 17,137 26,716 20,668 1,494 1,521 2,390 Federal Republic of Germany 337 4,377,658 5,241,081 8,709,597 3,046,315 Finland 11,257 13.974 22,627 17,784 54 942,416 1.848,601 810,138 639,718 689 11,316,941 12,796,664 22,032,232 14,442,307 Honduras 20 34,314 39,861 66,009 17,738 29 Hong Kong 570,174 696,220 912,981 1,125,227 Hungary 5,387 2,680 3,416 796 Iceland 565 684 1,136 India 38 808,298 976,716 1,561,687 973,866 Iran 44,308 57,516 84,518 8,810 Ireland 2,962 1,842,990 2 3,166 5,954 1.448 Israel 2,268,920 64 3,704,410 1,291,787 Italy 94 1,795,569 2,266,063 3,582,789 2,166,072 Japan 390 7,356,083 5,317,596 13,808,588 2,020,320 43,270 153,380 27,142,946 Kuwait 36,959 3 58,190 86,973 Latvia 282,712 52,295,220 11 205,655 116,623 28,280,049 Liberia 1.479 21,824,232 Luxembourg 803,686 63 1,586,476 1,013,434 717,187 Malagasy Republic 9,389 11,531 1 18,872 4,180 31 544,795 706,464 476,432 938,109 Malta 241 3,283,540 3,823,547 6,281,073 3,331,821 Marshall Islands 23 332,724 389,198 661,844 486,278 Mauritius 17,966 1 22,311 36,112 30,182 Mexico 65 995,643 1.224,546 1,815,817 601,641 10 156,381 296,788 194,844 183,200 Myanmar 50 1,657,626 848,497 980,803 836,263 237 2,657,039 3,034,620 5,198,869 1,851,034 45 450,390 490,470 894,253 166,213 New Zealand 501 650 802 North Korea.... 7,852 9,012 15,783 12,809 702 11,861,502 12,585,759 23,268,353 12,494,362 Panama..... 2,214 32,380,787 33,247,949 61,990,806 22,593,531 3,497 Paraguay 1,740 2,281 2,352 People's Republic of China 5,807,998 268 4,736,761 9,358,773 5,727,876

Table 3.—Canal Traffic1 by Flag of Vessel—Fiscal Year 1992—Continued

		Measured	d tonnage		
Flag	Num- ber of transits	Panama Canal net	Registered gross 2	Tolls	Long tons of cargo
Peru	98	1,093,338	1,089,196	\$ 2,100,659	905,020
Philippines	433	6,500,444	7,386,665	12,799,741	8,320,774
Poland	80	785,250	924,592	1,555,895	681,173
Portugal	3	33,938	44,776	63,274	27,650
Qatar	3	36,154	45,210	72,670	10,392
Romania	13	95,897	114,102	188,915	132,346
Sierra Leone	1	3,176	1,385	6,384	1,181
Singapore	186	3,840,659	3,860,163	7,320,752	3,220,923
South Korea	161	4,502,348	4,880,956	8,784,575	3,617,684
Spain	9	44,771	51,096	\$ 89,125	63,136
Sri Lanka	46	442,468	507,311	854,512	157,316
St. Vincent & Grenadines	133	1,415,492	1,644,657	2,773,643	1,368,232
Sweden	65	2,020,763	1,610,161	3,997,111	756,386
Switzerland	12	300,097	368,302	582,021	429,188
Taiwan	153	5,054,355	5,935,137	10,159,254	4,253,838
Thailand	1	9,273	8,477	14,837	
Toga	3	40,941	17,994	76,696	2,162
Turkey	26	344,463	415,302	678,421	470,139
U.S.S.R	303	2,793,009	3,316,680	5,388,400	2,133,243
United Arab Emirates	6	72,020	90,408	144,760	72,849
United Kingdom	253	4,831,193	5,756,454	9,432,524	4,142,468
United States	414	5,294,941	5,337,951	9,945,766	4,014,829
Vanuatu	202	3,001,576	2,806,754	5,597,111	1,816,917
Venezuela	146	506,701	581,481	996,634	407,098
Yugoslavia	22	321,246	377,508	617,061	353,664
Total	12,454	188,516,426	204,324,625	\$365,716,456	159,272,618

¹ Includes only commercial vessels of 300 net tons and over, Panama Canal measurement, or of 500 displacement tons and over on vessels paying tolls on displacement basis (dredges, warships, etc.).

NOTE.—In Canal traffic statistics, foreign naval vessels such as transports, supply ships, tankers, etc., with a measurement of 300 net tons (Panama Canal measurement) and over, and vessels of war, dredges, etc., with a displacement of 500 tons and over, are classified as oceangoing commercial vessels. Statistics on these vessels, except as related to displacement tonnage, have been included in the table above. As displacement tonnage cannot be combined with net tonnage, the following table shows statistics covering 29 vessels which transited the Canal during fiscal year 1992 and paid tolls on displacement tonnage.

Flag	Туре	Num- ber of transits	Displace- ment tonnage	Tolls
Belgium	Dredge	1	5,730	\$ 6,418
Canada	Naval	2	7,882	8,828
Chile	Naval	3	9,470	10,606
Ecuador	Naval	2	2,384	2,670
France	Naval	2	4,067	4,555
Italy	Naval	2	14,700	16,464
Mexico	Naval	2	3,662	4,101
Netherlands	Dredge	1	9,486	10,624
Panama	Dredge	3	9,474	10,611
People's Republic of China	Dredge	1	20,123	22,538
Portugal	Naval	1	1,800	2,016
U.S.S.R	Naval	1	2,899	3,247
United Kingdom	Naval	1	5,394	6,041
United Kingdom	Dredge	2	12,863	14,407
United States	Naval	2	2,100	2,352
United States	Dredge	3	5,369	6,013
Total		29	117,403	\$131,491

² Includes 11 transits where no registered tonnage was reported.

Table 4.—Classification of Canal Traffic1 by Type of Vessel—Fiscal Year 1992

		Laden			Ballast		
	Atlantic	Pacific		Atlantic	Pacific		Grand
Type of Vessel	Pacific	Atlantic	Total	Pacific	Atlantic	Total	Total
CARGO AND CARGO/PASSENGER SHIPS: Bulk Carriers:							
Dry Bulk Carriers:				•	,		
	1,597	1,047	2,64	14	0 088	208	3,152
Fanama Canal net tonnage (thousands)	\$66,747	\$37,108	\$103,855	\$265	\$15,981	\$16,246	\$120,101
Cargo (thousands of long tons)	55,442	28,101	83,543	:	:	:	83,543
Dry/Liquid Bulk Carriers:	12	7	61	2	-	3	22
Panama Canal net tonnage (thousands)	372	185	557	4	24	89	625
Tolls (thousands of dollars)	\$748	\$371	\$1,119	\$71	\$39	\$109	\$1,228
Cargo (thousands of long tons)	208	2/3	/81	:	:	:	18/
Venicle Carriers: Number of transits	110	280	390	248	6	257	647
Panama Canal net tonnage (thousands)	4.290	10.947	15.237	9.655	104	9,759	24,996
Tolls (thousands of dollars)	\$8,622	\$22,003	\$30,626	\$15,449	\$166	\$15,615	\$ 46,240
Cargo (thousands of long tons)	153	1,227	1,380	:	:	:	1,380
Vehicle/Dry-Bulk Carriers.	ì	9	311	-	-	2	127
Number of transits	000	9,5	110	- 00	100	220	721
Panama Canal net tonnage (thousands)	1,0/9	0/7/1	2,349	200	6334	6383	2,780
Tolls (thousands of dollars)	32,168	1,075	34,721	646	4004	7000	2,104
Cargo (thousands of long tons)	1,000	1,0/2	6,743	:	:	:	4,1
Container/Breakbulk Ships:							
Number of transits	329	283	612	7	33	40	652
Panama Canal net tonnage (thousands)	4,582	3,975	8,557	8	321	372	8,929
Tolls (thousands of dollars)	\$9,210	\$7,990	\$17,200	281	\$514	\$292	31/,/18
Cargo (thousands of long tons)	3,457	3,105	6,561	:	:	:	0,301
Number of transits	540	260	1.100	2	:	2	1,102
Panama Canal net tonnage (thousands)	13,779	14,366	28,145	526	:	26	28,171
Tolls (thousands of dollars)	\$27,695 9,897	8.876	18 728	247		745	18,728
		1000					

General Cargo Ships: Number of transits Panama Canal net tonnage (thousands) Tolls (thousands of dollars) Cargo (thousands of long tons)	778 6,104 \$12,270 5,316	667 5,469 \$10,992 4,091	1,445 11,573 \$23,262 9,407	49 313 \$501	101 600 \$959	150 913 \$1,460	1,595 12,486 \$24,723 9,407
Passenger Ships (2): Number of transits Panama Canal net tonnage (thousands) Tolls (thousands of dollars)	91 1,966 \$3,952	52 1,061 \$2,133	3,028 \$6,086	2 8 813	3 15 \$24	23 \$37	3,051 \$6,123
Refrigerated Cargo Ships: Refrigerated Cargo Ships: Refrigerated Cargo Vessels: Number of transits Panama Canal net tonnage (thousands) Tolls (thousands of dollars)	605 4,628 \$9,302 728	1,253 8,782 8,17,653 4,014	1,858 13,410 \$26,954 4,742	622 4,001 \$6,402	36 184 \$294	658 4,185 \$6,696	2,516 17,595 \$33,650 4,742
Fishing Vessels: Number of transits Number of transits Panama Canal net tonnage (thousands) Tolls (thousands of dollars) Cargo (thousands of long tons)	136 110 \$221 15	189 161 \$324 96	325 271 \$545 111	51 55 \$89	7 9 815	58 65 \$104	383 336 \$649 111
Pankers: Number of transits Panama Canal net tonnage (thousands) Tolls (thousands of dollars) Carpo (thousands of long tons)	711 11,019 \$22,149 17,564	485 7,512 \$15,098 11,315	1,196 18,531 \$37,247 28,879	108 2,125 \$3,400	213 3,025 \$4,840	321 5,150 \$8,240	1,517 23,681 \$45,487 28,879
Judud Gas Carriers. Wumber of transits. Panama Canal net tonnage (thousands) Tolls (thousands of dollars) Cargo (thousands of long tons)	115 1,299 \$2,611 1,339	15 186 \$375 154	130 1,486 \$2,986 1,493	50 \$80	75 883 \$1,413	79 934 \$1,494	209 2,419 \$4,480 1,493

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	82	94	108	:	366	200	200,1	67 463	93,403	ξ.		12,070	186,713	\$362,220	158,368	707	1 000	1,003	111	42,25	Š	12 454	12,474	100,210	\$365.716	159,273	0.76
	∞:	4 2	301	:	120	671	ţS	000	27/2	:		2,093	31,888	\$51,020	:		14/	100	11/	41,034	:	3 340	2,240	32,431	\$52.054		:
	∞ 8	875	332	:	8	26	S :	11	770€	:	,	983	15,362	\$24,580	:	Ġ	8 8	900	39	3639	:	1 00 1	1,001	15,8/2	\$25.439	()	:
	23	976	\$78	:	30	85	25	25	\$145	:		1,110	16,525	\$26,441	:	ç	49	0 6	8/18	C/18	:	1 150	1,139	16,380	\$26.615	20,0	:
	:	:	:	:	777	1 237	1,239		\$2,491	\$		6,977	154,826	\$311,200	158,368	e e	757	1,239		\$2,491	908	11001	10,214	156,065	8313 663	150,073	139,473
	:	:	:	:	5	107	401		3928	3		4,897	72,377	\$145,477	62,282		107	461		83.58	145	000	4,999	72,838	\$146.405	60,67	02,427
	:	:	:	:	301	135	8//		\$1,563	601		2,080	82,449	\$165,723	980'96	,	135	8//		\$1,563	759	910	5,215	83,227	\$167.258	240.70	70,040
OTHER TYPE SHIPS: Naval Vessels:	Number of transits	Displacement tonnage (thousands)	Tolls (thousands of dollars)	Cargo (thousands of long tons)	Barges, Dredges, Drydocks, 1ugs, etc.:	Number of transits	Panama Canal net tonnage (thousands)	Displacement tonnage (thousands)	Tolls (thousands of dollars)	Cargo (thousands of long tons)	Total Cargo and Cargo/Passenger Ships:	Number of transits	Panama Canal net tonnage (thousands)	Tolls (thousands of dollars)	Cargo (thousands of long tons)	Total Other Type Ships:	Number of transits	Panama Canal net tonnage (thousands)	Displacement tonnage (thousands)	Tolls (thousands of dollars)	Cargo (thousands of long tons)	Grand Total Ships:	Number of transits	Panama Canal net tonnage (thousands)	Displacement tonnage (thousands)	Tons (monaging or tonats)	Cargo (thousands of long tons)

1 Includes only commercial vessels of 300 net tons and over (Panama Canal measurement) for vessels paying tolls on net tonnage basis, or of 500 displacement tons and over for vessels paying on displacement tonnage.

² Vessels certificated for more than 12 passengers.

Table 5.—Laden and Ballast Traffic by Flag of Vessel Fiscal Year 1992

		Laden			Ballast	
	Num-			Num-		
	ber	Panama		ber	Panama	
	of	Canal net	- "	of .	Canal net	"
Flag	transits	tonnage	Tolls	transits	ionnage	Tolls
Antigua-Barbuda	29	115,116	\$ 231,383	1	2,112	\$ 3,379
Argentina	1	4,210 37,253	8,462	1	4,210	6,736
Australia	1 5		74,879 228,909	;	28,421	45,474
Bahamas	665	113,885 8,834,268	17,756,879	127	1,073,349	1,717,358
Dahasia	2	24,518	49,281		1,075,545	1,717,556
Barbados	2	5,836	11,730			
Belize	8	13,072	26,275	5	7,386	11,818
Bermuda	Ĭ	11,988	24,096		• • • • •	• • • • • •
Bolivia	5 25	41,955 440,691	84,330 885,789	3	61 220	01.066
Brazil	3	40,085	80,571		51,228	81,965
Canada	5	25,482	51,219	4	17,391	27,826
Canada	1	21,327	42,867			
Chile	84	865,652	1,739,961	9	75,185	120,296
Colombia	93	624,754	1,255,756	19	68,565	109,704
Cuba	62 577	459,837 6,768,155	924,272 13,603,992	9 132	27,500 1,437,280	44,000 2,299,648
Cyprus	13	179,920	361,639	132	57,464	91,942
Denmark	236	5,401,372	10.856.758	32	232,960	372,736
Denmark	2	1.120	2,251			
Ecuador	264	2,052,858	4,126,245	65	409,669	655,470
Egypt	3	52,200	104,922	1	22,093	35,349 938
Ecuador	,	12,825	25,778	i	586 1,494	2,390
Federal Republic of Germany	314	4,159,377	8,360,348	23	218,281	349,250
Finland	1	11,257	22,627			
France	39	819,953	1,648,106	13	122,463	195,941
Greece	563	9,573,479	19,242,693	126	1,743,462	2,789,539
Hong Kong	16 26	27,089 519,388	54,449 1,043,970	4 3	7,225 50,786	11,560 81,258
Hungary	20	2,680	5,387		30,780	01,230
Hong Kong	ī	565	1,136			
India	30	654,659	1,315,865	8	153,639	245,822
Iran	3	33,231	66,794	1	11,077	17,723
Ireland	2 64	2,962 1,842,990	5,954 3,704,410	• • • • •	• • • • •	• • • • • •
Italy	87	1,691,256	3,399,425	5	104,313	166,901
Irciand Israel Italy Japan Kuwait	317	4,972,720	9,995,207	73	2,383,363	3,813,381
Kuwait	3	4,972,720 43,270	86,973			
Latvia	7	90,985	182,880	4	62,395	99,832
Livembourg	1,227 52	21,693,943 733,117	43,576,815 1,473,565	252 11	5,449,003 70,569	8,718,405 112,910
Luxembourg	1	9,389	18,872		70,309	112,910
Malaysia	28	428,823	861,934	3	47,609	76,174
Malta	186	2,505,875	5,036,809	55	777.665	1,244,264
Malta	22	315,818	634,794	1	16,906	27,050
Mexico	1 39	17,966 533,382	36,112 1,072,098	24	462,261	739,618
Morocco	7	113,606	228,348	3	42,775	68,440
Myanmar	42	731,782	1,470,882	8	116,715	186,744
Netherlands	195	2,285,323	4,593,499	41	371,716	594,746
Netherlands Netherlands Antilles New Zealand	42	423,486	851,207	3	26,904	43,046
North Korea	•••	7,852	15,783	1	501	802
Norway	609	10,463,292	21,031,217	93	1,398,210	2,237,136
Panama	1,709	24,807,161	49,862,394	502	7,573,626	12,117,802
Paraguay	. 1	1,740	3,497	27		
	240	4,286,385	8,615,634		450,376	720,602
Philippines	81 367	856,874 5,851,293	1,722,317 11,761,099	17 66	236,464 649,151	378,342 1,038,642
Poland	71	730,475	1,468,255	9	54,775	87,640
Portugal	1	16.969	34,108	1	16,969	27,150
Qatar	3	36,154 86,535	72,670			
Komania	11	86,535	173,935	2	9,362	14,979
Singapore	149	3,176 2,867,555	6,384 5,763,786	37	973,104	1.556,966
Peru Philippines Poland Portugal Qatar Romania Sierra Leone Singapore South Korea Spain Spi Lanka	142	3,855,653	7,749,863	19	646,695	1,034,712
Spain	7	42,663	85,753	ź	2,108	3,373
Sri Lanka	37	357,471	718.517	9	84,997	135,995
St. vincent & Grenadines	117	1,241,112	2,494,635	16	174,380	279,008
Sweden	58 10	1,863,147 248,454	3,744,925 499,393	7 2	157,616 51,643	252,186
Taiwan	153	5,054,355	10,159,254		31,043	82,629
Thailand				1	9,273	14,837
loga	2	27,294	54,861	1	13,647	21,835

Table 5.—Laden and Ballast Traffic by Flag of Vessel Fiscal Year 1992—Continued

		Laden				Ballası	
Flag	Num- ber of transits	Panama Canal net tonnage		Tolls	Num- ber of transits	Panama Canal net tonnage	Tolls
Turkey	23	310,439	\$	623,982	3	34,024	\$ 54,438
United Kingdom	6 206	72,020 4,137,984		144,760 8,317,348	46	693,209	1,109,134
United States	275	3,574,379		7,184,502	134	1,720,562	2,752,899
U.S.S.R. Vanuatu	244 145	2,234,973 1,938,023		4,492,296 3,895,426	58 57	558,036 1.063,553	892,858 1,701,685
Venezuela	123	453,446		911,426	23	53,255	85,208
Yugoslavia	18	251,384	_	505,282	4	69,862	111,779
Total	10,214	156,065,008	\$.	313,662,696	2,211	32,451,418	\$51,922,269

Above table involves only commercial vessels of 300 net tons or over, Panama Canal measurement.

Table	6.—Seg	regation	Table 6.—Segregation of Transits¹ by Registered Gross Tonnage—Fiscal Year 1992	nsits¹ by	, Regist	ered Gre	oss Ton	ладе— F	iscal Ye	ar 1992			4.00
		2.000	4.000	00009	8.000	10.000	15.000	20.000	30.000	40.000		Registered	gros
	Under 2,000	3,999	5,999	to 7,999	06'6	10 14,999	066'61	10 29,999	39,999	and	Total 2	gross	per
Antigua-Barbuda	∞	6	7	2		4				:	30	132.862	4.
Argentina	:	:	:	2	:	:	:	:	:	:	2	12,502	.5
Australia	:	:	:	:	:	:	:	:	:	-	_	44,154	4,
Austria	:		:	:			::		- ;		9	171,334	28,5
Bahamas		84	70	74	109	194	52	202	34	12	792	11,588,244	14,6
Bahrain	:	:	:	:	:	:	2	:	:	:	7	30,244	15,1
Barbados	:	-	-	:	:	:	:	:	:	::::	7	7,778	œ.
Belize	13	:	:	:	:	:	:	:	:	:	13	15,486	
Bermuda	:	:	:	:	:	:	_	:	:	:	_,	15,092	15,0
Bolivia	-	:	:	:	o,	: `	:`	:	:	:	n (49,185	ور مرز
Brazil	•	:	:	:	0	Λ·	4		:	9	78	588,797	7,0
Bulgaria	:	:	:	:	:	7	:	_	:	:	m (46,843	15,6
Canada	7	~	-	:	_	7	:	:	:	:	6.	45,494	5,0
Cayman Islands	:	:	:	:	:	:		- 1	:	:	-;	23,081	23,0
Chile		-	:	:	ς.	73		2	:	:	93	1,047,183	1,2
Colombia		4 ;	:	-		46		:	:	:	112	665,361	5,9
Cuba	– 5	7 2	:	:	2 ;	65 5	7	:	:	:	71	559,888	2,3
Cyprus	8		47	4,	140			87	36	9	60/	9,508,778	13,4
Czechoslovakia		:	:	٠,٠	:"			4 ;	4 ,	:	15	286,854	9,5
Denmark	35		×	4	`			2	0	901	708	6,959,314	3,
Dominican Republic	7 5		:-	135			:-	: = :	:	:	7000	298	•
Fount	2		-	771	ì	ţ	17	= =	:		929	2,192,002	6,5
Estonia	:-	:	:	:	:	:	: -	4	:	:	4 C	72,002	2,0
Faroes	-	:	:	:	:	:	•	:	:	:	7 -	(51,11	o, –
Federal Republic of Germany	7		23	: =	72	72	: 69		: 62		337	5 241 081	5,5
Finland	:				!	-		!	:		-	13,974	13,6
France		7	4	:	:	7	81	=		2	51	810,138	15,8
Greece	74	:	6	49	81	125	08	<i>L</i> 9	504	:	689	12,796,664	18,5
Honduras		:	:	~	:	:	:	:	:	:	20	39,861	6,1
Hong Kong	:	:	-	:	-	m	=	:	13	:	53	696,220	24,0
Hungary	:	-	:	:	:	:	:	:	:	:		3,416	ω, 4,
Iceland	-	:	:	:	:	: °	::	:	:	:	- ;	684	,
India	•	:	:	:	:	7 -	CI	6	•	6	8,	9/0/10	3;
Iraliand	:	:	:	:	:	4	:	:	:	:	4 c	31,516	4
Israel		:	:	:	:	:	:	: °	: ¥	:	7 7	3,100	2,7
Italy	: -		: :		:= :	:=	:"	9,2	? ≈		\$ \$	2,206,920	4,4
Japan	151	∞	21	27	15	2	28.	92	33	9	365	5,317,596	13,6
Kuwait	:	:	:	:	:	:	7	-	:	:	e	58,190	19,3

8,696 9,121 6,086 1,531 7,574 5,865	2,311 9,484 9,616 1,899 9,616	2,035 2,035 2,281 1,699 1,114 1,059	1,557 1,630 8,777 1,385 1,754 1,028 1,366 1,366	24,772 30,692 38,792 8,477 5,998 10,973 115,973 115,068 13,332 13,895
28,280,046 1,013,43, 1,53,44,79 3,823,54	22,31 1,221,746 194,844 980,80; 3,026,670 490,470	9,012 12,585,755 33,242,356 33,242,356 5,793,676 1,089,196	924,59, 43,206 43,206 114,100 1,386 1,880,166 64,880,956 1,644,657	1,610,161 368,302 5,935,137 17,994 415,302 3,314,396 9,408 5,332,844 5,332,844 2,806,754
11,479 63 63 1 241 23	62 10 23 45 45	2,211 2,211 267 267 98 98	80 2 13 186 161 161 161 161 161 161	65 11 11 12 13 13 13 13 13 13 14 15 16 16 16 16 16 16 16 16 16 16 16 16 16
;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;		119		8
232	30:14:18:18	302	84.8.1.2	26
252 28 28 2	- T 9 7 5 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	215 182 182 122	35 2	15 22 22 22 25 17
				16 25 25 25 25 25 25 25 25
				8 8
219		127 166 43	20 20 30 30 27	90 :
44 45 33 20	22 : :	328	50	6
32	36	318		25 18 118
15	39	270		
	22			
Latvia Liberia Luxembourg Malagasy Republic Malaysia Markal Islands	Mauntus Mexico Myanmar Netherlands Netherlands Antilles	North Korea Norway Panama Paraguay People's Republic of China Peru Philippines	Potugal Qatar Qatar Romania Sierra Leone Singapore South Korea Spain Sri Lanka St. Vincent & Grenadines	Sweden Switzerland Taiwan Thailand Toga Toga U.S.S.R United Arab Emirates United Kingdom United Kingdom

Table 6.—Segregation of Transits1 by Registered Gross Tonnage—Fiscal Year 1992 (Continued)

Average	gross tonnage per vessel	3,983	16,451
	Registered gross tonnage	581,481 377,508	204,227,382
,	Total 2	146	12,414
	40,000 and over		541 4.4
	30,000 10 39,999	4 6	1,638
	20,000 10 29,999	3	1,865
D	15,000 10 19,999	3 8	1,239 10.0
	10,000 10 14,999	15	2,344 18.9
	8,000 10 9,999	. ∞	1,413 11.4
•	6,000 10 7,999	2	1,092 8.8
	4,000		783 6.3
	2,000 to 3,999		582 4.7
0	Under 2,000	117	917
		Venezuela	Total

² Excludes 29 vessels paying tolls on displacement tonnage basis and 11 transits where no registered tonnage was reported. ¹ Includes only commercial vessels of 300 net tons and over, Panama Canal measurement.



Table 7.—Principal Commodities Shipped through Canal by Fiscal Years 1990 through 1992

٠	0661	4,796	128	21	4	8	23	4,668	1,621	=	927	1,154	63	86	962	:	871	16	3,051	2,242	292	m	_	432	0	6	1,363	45	6,861	3,695	748	2,063	355	
North Pacific to Atlantic	1661	5,229	140	54	15	89	32	5,089	2,115	4	714	1,288	117	808	1,181	53	1,061	92	3,756	3,312	595	48	_	419		66	2,161	49	5,883	2,779	199	2,058	3/9	
Pacif	1992	5,018	124	9	74	99	53	4,894	2,145	89	397	1,342	102	8	1,446	8	1,192	158	4,484	3,034	112	83	7	280		8	2,189	86	5,222	1,832	80	2,272	316	
[Thousands of long tons]	Commodity	Canned and Refrigerated Foods	Canned Foods	Fish	Fruit	Milk	Other and unclassified	Refrigerated Foods	Bananas	Dairy Products	Fish	Fruit, excluding bananas	Meat	Other and unclassified	Chemicals and Petroleum Chemicals	Caustic Soda	Chemicals, unclassified	Petroleum Chemicals, miscellaneous	Coal and Coke (excluding petroleum coke)	Grains	Barley	Corn	Oats	Rice	Sorghum	Soybeans	Wheat	Other and unclassified	Lumber and Products	Boards and planks	Plywood, veneers, composition board	Pulpwood	Other and unclassified	
ific	1992	806	33	-	4	23	9	773	∞	6	991	135	15	439	6,327	734	4,277	1,316	4,424	29,684	16	14,329	37	138	1,947	7,207	5,435	201	4,663	70	2	1,518	3,0/0 517	
South Atlantic to Pacific	1661	830	18	2	3	=	2	812	∞	-	238	145	2 ;	410	6,888	1,014	3,869	2,005	4,636	29,584	110	14,985	66	162	1,734	6,265	5,828	400 00	3,665	152	4	90,0	2,493	
An	0661	701	30	2	3	6	91	671	9	_	209	55		389	5,770	918	3,566	1,286	5,065	27,998	10	14,012	7	224	2,029	6,059	5,425	237	2,608	<u>8</u>	18	086	1,392 514	

1.384	106	y C.	40	000,7	67	1 471	333	39	863	4.733	"	424	:	1,374	222	2,710	2,079	78	1,281	383	268	52	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	7.410	3 040	46	471	413	224	313	717	2,128
11,378	59	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	39	2,808	96	1 243	337	197	806	4.814		398	:	1,139	323	2,954	1,562	25	795	296	336	32	7.714	6.375	1 706	19	488	295	243	172	027	2,521
1,323	35	23	23	7,017	91	1 357	323	226	786	4,398	"	368		830	602	2,596	1,332	19	658	388	227	7 2	6.616	5.547	769	78	1,037	407	182	130	1 150	1,833
Agricultural machinery and implements	Construction machinery and equipment	Motorcycles, bicycles and parts	Other and unclassified	Andrea the control of	Angles, snapes, and sections	Plates, sheets, and coils	Tubes, pipes, and fittings	Wire, bars, and rods	Other and unclassified	Minerals, miscellaneous	Asbestos	Borax	Infusorial earth	Salt	Soda and sodium compounds	Suffur	Nitrates, Phosphates, and Potash	Ammonium compounds	FISHMeal	NIITATE OI SODA	F Hospitates	Fotable Fotable Fertilizer micrellandure	Ores and Metals	Ores	Alumina/bauxite	Chrome	Copper	Iron Transfer and	N. Cad	Maniganese Tin	Zinc	Other and unclassified
27 277	99 22	24	3 8 5 4	15	177	2,022	225	735	702	œ	12	_	: `	န္ :	£ °	× (12,460	648	:05	25.4	9,00	2 573	2,942	738	159	62	82	071	. 5	2	34	188
32 235							_	_																								
310							_	_	_																							

Table 7.-Principal Commodities Shipped through Canal by Fiscal Years 1990 through 1992-Continued

	0661	1,275	13	892	7	8	78	Ξ	220	19	3,634	26	3	421	7	\$	714	88	Π	47	77	2,153	13.521	:	6,575	86	3,620	310	9	: :	74 :	1/1	,, 82	
North Pacific to Atlantic	1661	1,340	12	978	16	≅	:	∞	178	4	3,287	63	4	318	9	19	633	33	90	36	7	2,053	10.964	-	5,024	141	2,037	1,162	79	:	<u>4</u> 5	671	38	
Pacif	1992	1,069	6	\$	43	9	7	∞	165	71	3,201	901	8	7 <u>8</u> 1	7	11	4	19	23	4		1,885	1 11.826	2	3,936	238	3,287	96	53	213	35	2610	247	
[Thousands of long tons]	Commodity	Metals		Copper			Scrap		Zinc		Other Agricultural Commodities		•		•								Petro		•				•			Ludicaling of the control of the con		
ific	1992	2,204	465	7	243	7	1,424	17	4	42	1,768	00	7	9	:	4	17	236	m I	7	— <u>;</u>	1,450	13.373	108	4,346	1,300	2,055	6	1,031	33	C80,1	000	313	
South Atlantic to Pacific																							13.036											
Aut	1990	2,974	409	∞	291	15	2,186	=	7	4	1,803	78	4	7	7	51	13	122	12	4	£ 2	1,508	11.709	25	2,687	1,430	1,891	1,938	912	101	966	710	331	

11,034	Ξ	_	S	84	12	7	S	77	14	3	70	213	232	448	~	_	91	13	78	36	15	-	13	9,375	412	66,107
11,189	4	=	S	21	3	:	2	25	6	:	46	<u>4</u>	161	551	_	_	5	74	2	78	<u>8</u>	:	Ξ	9,567	487	63,236
11,615	=	7	7	91	9	29	4	42	22	_	17	115	214	464	:	_	2	8	12	32	7	:	32	9,837	662	62,427
Miscellaneous	Bricks and tile	Carbon black	Cement	Clay, fire and china	Fibers, plant	Flour, wheat	Glass and glassware	Groceries, miscellaneous	Liquors and wines	Marble and stone	Oil, coconut	Oil, fish	Oil, vegetable	Paper and paper products	Porcelainware	Resin	Rubber, manufactured	Seeds, excluding oilseeds	Slag, clinkers, and dross.	Tallow	Textiles	Tobacco and manufactures	Wax, paraffin	Container cargo	All other and unclassified	Total
15,940	79	113	318	724	7	272	00	46	7	127	-	:	202	1,078	2	87	7	71	25	117	∞	:	=	12,039	618	96,846
																										99,460
																										996'06

Table 8.-Origin and Destination of Commercial Cargo Through the Panama Canal from Atlantic to Pacific During Fiscal Year 1992 Segregated by Countries in Principal Trade Routes

		Total	274,525 142,633 3,876,217 66,319 4,359,694	296,926	1,038,964 399,964 384 10,814 1,450,126	138,662 230,061 1,729,660 62,682 2,161,065	12,184 73,321 123,946 103,369 312,820
		Balboa, R.P. ²	11,077 12,894 578,033 3, 5,524 607,528 4,	:	1,280 1, 394,332 65 10,790 406,467 1,	839 25,527 72,563 1, 98,929	57,432 15,611 2,385 75,428
		Central America B (other)	4,920 486 132,727 2,764 140,897		150	46,316 34 19,786 1,754 67,890	12,054 177 12,200 29,567 53,998
	America	Pan-	2,819 28,448 71,020 432 102,719	2,218	5,632 169	430 12,906 443 13,779	14,919
	si Centra	Nica- ragua	20,606 4,100 115,704	5,121		5,014 1,949 651,934 658,897	8,589 8,719
	To West Coast Central America	Mexico	108,134 84,118 1,355,254 28,828 1,576,334	276,527	681,853	20,062 182,177 106,250 47,533 356,022	1,236
	T	Guate- mala	85,386 20 402,892 28,686 516,984	:	6	34,861 15,737 326,765 4,082 381,445	5,696 25,708 6 31,410
		El Sal- vador	36,419 6,513 621,735	9,095	354,532	7,025 4,076 460,008 	13 1,494 1,507
		Costa Rica	5,164 6,054 598,852 85 85	3,965	1,299	24,545 131 79,448 8,870 112,994	55,508 64 55,750
Long tons]	To W. C. Canada	Canada	19,298 5,472 10,676 35,446	705		43,064 9,795 13,271 5,954 72,084	10,051 29,658 18,834 58,543
1	ates	Total	45,449 24,103 1,496,549 52,798 1,618,899	969'68	3,223 150 1,944 5,317	786,364 206,169 1,991,623 51,671 3,035,827	2,618 182,136 206,207 164,999 555,960
	To West Coast United States	Main- land	41,259 22,265 1,496,549 52,798 1,612,871	89,627	3,223 150 1,944 5,317	785,319 85,066 1,798,201 47,103 2,715,689	2,618 151,175 178,427 164,999 497,219
	West Coa	Намай	4,190	69		108,643 193,422 	30,961 27,780 58,741
	To	Alaska	1,838	:		1,045 12,460 4,568 18,073	
			EAST COAST NORTH AMERICA: United States: North Atlantic ports South Atlantic ports Great Lakes ports. Gulf ports. United States (other)!	EAST COAST CANADA	EAST COAST CENTRAL AMERICA: Mexico Panama Central America (other)! Cristobal, R.P.? Total Central America	EAST COAST SOUTH AMERICA: Brazil Colombia Venezuela South America (other) Total South America	WEST INDIES: Cuba Jamaica Jamaica Netherlands West Indies Trinidad/Tobago West Indies (other) Total West Indies

EUROPE:														
Belgium	:	:	327,862	327,862	23,597	11,311	13,329	48,418	8	21,327	63	9,446	1,125	105,079
France	537	:	178,931	179,468	18,373	22,013	:	:	:	5,914	:	:	6,741	34,668
Germany	:	:	319,313	319,313	31,940	3,107	6,950	16,541	96	3,298	714	4,850	2,927	38,453
Italy	:	:	254,524	254,524	25,466	12,465	595	13,179	:	1,126	12	:	3,509	30,886
Netherlands	:	:	320,939	320,939	38,274	17,155	1,248	31,875	29,658	10,654	:	4,586	3,270	98,446
Norway	:	:	156,644	156,644	108	750	:	10,005	:	6,514		:	:	17,269
Spain-Portugal	:	:	116,172	116,172	6,412	969'9	48,373	:	1,224	6,303	4	213	23,015	85,868
Sweden	:	:	51,596	51,596	322	:		:	:	:	69	:	:	69
United Kingdom	:	:	114,677	114,677	10,883	:		:	:	:	6	:	1,540	1,549
U.S.S.R.	:	:	:	:	:	9,352	88,847	13,090	30,294	99	15	2,604	:	144,865
Europe (other)1	3,059	:	851,067	854,126	131,467	14,134	17,395	6,749	217,645	25,360	:	52,176	4,411	337,870
Total Europe	3,596	:	2,691,725	2,695,321	286,842	96,983	176,737	139,857	278,947	81,159	926	73,875	46,538	895,022
ASIA (MIDDLE EAST)	9,578	:	71,014	80,592		:	13,779	936	:	5,463	∞	:	:	20,186
AFRICA	:	315	45,206	45,521	850,602	:	29,653	:	193,482		:	4	:	223,149
GRAND TOTAL	33,085	365,380	7,728,668	8,127,133	1,304,222	881,161	1,721,079	1,070,641	3,434,254	899,769	140,370	336,824	1,234,890	9,718,988
Percent of Pacific-bound cargo	0.0	0.4	8.0	8.4	1.3	6.0		=	3.5	0.9	0.1	0.3	1.3	10.0

Table 8,-Origin and Destination of Commercial Cargo Through the Panama Canal from Atlantic to Pacific During Fiscal Year 1992 Segregated by Countries in Principal Trade Routes-Continued

[Long tons]

EUROPE:												
Belgium	181,333	41,081	59,926	98,059	25,571	405,970	3,993	32,547	58,128	45,561	140,229	
France	21,388	6,329	5,061	26,098	7,746	66,622	2,153	109,910	5,628	39,393	157,084	
Germany	126,801	32,491	49,601	52,217	7,556	268,666	45,025	6,664	11,343	25,072	88,104	
Italy	15,108	10,190	5,793	18,688	8,999	58,778	275	7,625	5,117	2,849	15,866	
Netherlands	88,014	4,840	3,697	15,405	9,011	120,967	64,480	15,030	45,850	20,537	145,897	
Norway	24,536	:	:	:	:	24,536	19,164	:	:	:	19,164	
Spain-Portugal	49,838	3,104	22,794	19,492	9,159	104,387	5,250	4	:	179	5,577	
Sweden	39,867	5,770	16,612	7,674	286	70,709	78,317	:	8,561	130	80,08	
United Kingdom	50,781	4,094	4,941	14,435	149	74,400	872	616	15,584	12,492	29,867	
U.S.S.R.	12,381	30,678	51,188	13,400	11,786	119,433	:	:	:	:	: : : :	
Europe (other)1	134,408	69,132	76,786	70,390	99,310	450,026	58,161	\$4,943	4,353	99,183	216,640	
Total Europe	744,455	207,709	296,399	335,858	180,073	1,764,494	277,690	227,786	154,564	245,396	905,436	
ASIA (MIDDLE EAST)	90,273	:	19,310	395	:	109,978	9		:	-	7	
AFRICA	1,240	10,885	44,072	6,167	1,266	63,630	32	:	157,514	24	157,570	
GRAND TOTAL	3,605,362	1,536,321	1,929,805	3,528,832	670,743 1	1,271,063	2,523,554	232,431	978,555	513,204	4,247,744	_
Percent of Pacific-bound cargo	3.7	1.6	2.0	3.6	0.7	11.6	2.6	0.2	1.0	0.5	4.4	

Table 8.—Origin and Destination of Commercial Cargo through the Panama Canal from Atlantic to Pacific during Fiscal Year 1992 Segregated by Countries in Principal Trade Routes-Continued

	Percent	of total Pacific- id bound il cargo	5,483,862 5.7 5,052,489 5.2 55,883 0.1 55,888,952 57.7 3,580,969 3.7		1,639,773 1.7 433,467 0.4 16,911 0.0 52,451 0.1 2,142,602 2.2	1,742,137 1.8 2,175,000 2.2 6,259,944 6.5 309,934 0.3 10,487,015 10.8	1,417,957 1.5 146,005 0.2 766,797 0.8 6.56,756 0.6 483,478 0.5 3,440,993 3.6
		Grand total		•			
		Total		123,863 36,192,643 147,992 1,279,010	250,638 4,728 4,729 6,450 266,545	677,322 74,561 1,064,137 101,785 1,917,805	1,343,867 113,122 156,885 116,754 121,866 1,852,494
		Asia (other) ¹	503,352 243,062 14,824 1,994,893 369,534	3,123,863	33,258 3,247 36,505	14,761 14,426 376 29,563	58,173 2,378 1,679 653 22,236 85,119
		U.S.S.R.	-	750,621			97,311
		Thai- land	31,094 31094 302,279 11,677	16,797	60,037	15,000	
		South Korea	1,194,125 313,960 19,535 3,812,789 433,713	3,774,122 164,505	32,769	38,655 67,747 11,077	51,671 14,499 38,654 133 66,360
	ia	Singa- pore	138,128 122,250 371,914 72,702	12,601	11,605 157	474 38 1,911 2,423	6,507 93 6,612
	To Asia	Philip- pine Islands	5,085 29,967 105 36,960	19,489	1,490		
[Long tons]		Japan	1,349,824 1,930,752 22,168,184 965,263	332,722	7,255 4,729 1,503	579,407 60,396 899,556 69,863 1,609,222	342,054 26,360 109,681 65,547 13,094 556,736
크		Indo- nesia	7,671 58,547 224,655 9,553	300,420			9,261
		Hong Kong	308,386 339,469 82,595 288,860	88,084	31,062	20,030 27,573 1,237 48,840	39,598 364 1,423
		Taiwan	617,200 570,996 20,966 6,739,979 529,222	260,528	6,200	5,041 3,143 45,066 667 53,917	30,275 21,436 20,176 71,887
		China	202,038 243,249 		66,962 4,571 	3,954 11,022 9,731 16,654 41,361	794,658
		EAST COAST NORTH AMERICA:	United States: North Atlantic ports South Atlantic ports Great Lakes ports Gulf ports Total Trained States (United States)	EAST COAST CANADA	EAST COAST CENTRAL AMERICA: Mexico Panama Central America (other)! Cristobal, R.P. ² Total Central America	EAST COAST SOUTH AMERICA: Brazil Colombia Venezuela Venezuela South America (other) Total South America	WEST INDIES: Cuba Jamaica Netheriands West Indies Trinidad/Tobago West Indies (other) Total West Indies

FITROPF															P
Pelsill	:	1.016	1.150	586	2,739	:	1,392	8	:		:	6,649	1,009,386		A
France		3,350	1,122	81	6,251	:	74	5,947	:		:	16,825	473,040		N
Cermany		1.036		:	125,781	:	4	3,242	3,242	:	:	130,073	876,549		Α
Italy visit in the second seco			<u>~</u>	:		:	:		:	:	1,849	1,867	387,387		M
Netherlands	:	11,039	Ξ	:	29,485	:	8	4,958	4,958	:	5,793	51,406	775,929	8.0	ĺΑ
Norway	:	:	:	154	42,219		:		:	:	:	42,373	260,094		. '
Spain-Portugal	:	773	21	:	37,374		:	4		:	:	38,212	356,628		C.
Sweden	:		:	:		:	15		:	:	143	158	209,862		A .
United Kingdom		24	:	:	24,084	:	77	1,478	1,478	:	8,875	34,885	266,261		N.
II S.S.B.		:	:	:		:	:		:	:	:		264,298		A.
Europe (other) ¹	6,305	7,995	783	621	180,724		731	7,038			58,126	262,357	2,252,486	2.3	L
Total Europe	ŀ	25,233	3,205	1,142	448,657	34	2,270	22,773		:	74,786	584,805	7,131,920		C
ASIA (MIDDLE EAST)	:	82	4,412	2,958		:	2,437	4,865	:	:	9,531	24,221	234,984	0.2) MC
AFRICA	:		:	:	56,512	:	375		:	901	2,111	860,68	1,399,570	4.	MIS
GRAND TOTAL	. 10,438,955	8,896,346	1,237,298	313,787	29,431,359	604,869	743,474	6,288,330	489,878	221,053	3,511,272	62,176,621	96,845,771	\parallel	SSIC
•				3		70	0	3 3	ć	ç	66 20 34	643		100 001	ON

Includes cargo not routed to permit segregation between definite countries.
 Includes both local and transshipped cargo.

100.0%

64.2

3.6

0.7

0.5

6.5

8.0

9.0

30.4

0.3

..

9.2

10.8

Percent of Pacific-bound cargo

Table 9.-Origin and Destination of Commercial Cargo through the Panama Canal from Pacific to Atlantic during Fiscal Year 1992 Segregated by Countries in Principal Trade Routes

Segregated by Countries in Chilchai Trade Noutes [Long tons]

	Total	89 96,885 96,974	154,453	8,439 4,432 36,137 2344 408,304 334 4,541 412,907 11,034,446 106,768 11,034,446 11,034,446
America	Cristobal R.P. 2	58,650	:	176 413 960 1,892 39,845 3,845 3,376 6,291 6,291 1,229 1,227 1,229 1,249 409 409 409
lo East Coast Central America	Central America (other) ¹	88	16,238	1,452 20 750 20 2,202 621 2,202 25,956 2,385 25,098 7,720 984 3,005 11,956
To East Co	Panama	13,509	:	750 20 750 600 2,202 621 2,202 26,956 17,720 984 1,013,005 10,7,214
	Mexico	24,726	138,215	8,263 4,010 35,177 1,45 369,038 75 416,508 2,20 89,019 1,457 1,457 1,772 1,2469 1,013,00
To E. C. Canada	Canada	10,418 236 276,492 287,146	3,065	23,240
	Total	278,237 62,886 887,459 1,228,582	1,238,683	111,531 109,803 595,892 11,01,79 11,07,70 11,07,70 1,330,249 1,330,249 1,230,745 1,178,770 305,209 5,178,718
S	United States (other)	31,481	165,483	21,071 13,975 127,084 8,044 21,872 3,205 195,749 93,335 160,091 559,188
United State	Gulf	274,310 33,690 553,272 861,272	572,424	89,471 70,591 279,955 9,883 64,467 63,360 1,229,104 1,229,104 1,00,277 116,439 116,439 116,439 116,439
To East Coast United States	Great Lakes ports	86,694	:	989 60,704 220,683 31,885 24,610 218 1,484 1,484 308,688 31,885 176,109 35,292 176,109 191,355 611,366 631,966
To	South Atlantic ports	86,694	209,499	989 60,704 220,683 24,610 218 218 308,688 176,109 176,109 167,380 191,355 61,350
	North Atlantic Ports	3,927 29,196 216,012 249,135	291,277	25,237 128,149 396,531 6,927 30,612 2,271 564,823 682,902 88,127 883,325 110,885 110,885 2,518,233
	WEST COAST NORTH AMERICA:	United States: Alaska Hawaii Mainland Total United States	WEST COAST CANADA	WEST COAST CENTRAL AMERICA: Costa Rica El Salvador Guatemala Honduras Mexico Nicaragua Panama Central America (other) Balboa, R. P. 3 Total Central America Chile Colombia Ecuador South America (other) Total South America

15,501 26,738 980,218 15,693 1,813,107 399,562 41,951 21,44 42,165 15,501 11,200 26,701 26,701 26,701 26,701 26,701 26,701 26,701 26,701 26,701 27,440 21,749 21,749 21,749 21,749 21,240 21,749 21,240 21,749 21,240 </th <th>25,045 14,218 961,320 35,013 12,67,733 123,178 12,879 12,879 12,879 235,350 23,350 36,02 383,438 56,411 47,429 12,879 787 38,305 39,092 299,001 2,129 168,802 883,438 56,411 2,129 168,802 883,438 56,411 126,808 126,308 126,308 126,308 126,308 126,308 126,308 126,308 126,308 126,308 126,308 126,308 126,308 126,308 126,308 126,308 126,308 126,308 126,308</th> <th>5.9 0.6 15.3 4.7 40.3 1.9 1.6 1.6 0.2 1.0 4.5</th>	25,045 14,218 961,320 35,013 12,67,733 123,178 12,879 12,879 12,879 235,350 23,350 36,02 383,438 56,411 47,429 12,879 787 38,305 39,092 299,001 2,129 168,802 883,438 56,411 2,129 168,802 883,438 56,411 126,808 126,308 126,308 126,308 126,308 126,308 126,308 126,308 126,308 126,308 126,308 126,308 126,308 126,308 126,308 126,308 126,308 126,308 126,308	5.9 0.6 15.3 4.7 40.3 1.9 1.6 1.6 0.2 1.0 4.5
	25,045 11-25,300 225,300 225,300 225,300 225,300 225,300 225,300 221,133 24,300 22,235,746 28,496 28	5.9
533,384 	231,137 375,876 413,606 1134,195 1,901,632 40,446 10,838 23,748 1,0838 23,748 1,264,079 4,264,079	13.9
OCEANIA: Australia British Oceania French Oceania New Zealand Oceania (other)! Total Oceania	ASIA: China Tawan Tawan Hong Kong Indonesia Japan Philippine Islands Singapore South Korea Thailand U.S.S.R. Asia (other)! Total Asia	Percent of Atlantic-bound cargo

See footnotes at end of table.

Table 9.—Origin and Destination of Commercial Cargo through the Panama Canal from Pacific to Atlantic during Fiscal Year 1992 Segregated by Countries in Principal Trade Routes—Continued

[Long tons]

18,549 638,194 152,812 49,260 51,139 9,034 10,988 497,713 633,122 ,046,023 Total 4,007 148,609 204.578 : 4,921 : 109,957 926,601 27.551 170,781 152.449 57,912 898'69 105,602 49,630 39,122 44.194 9,101 4.187 261,578 To West Indies 37.744 20,644 90,837 532 3.00 : 28,479 409,382 409.382 243,271 7,975 7.975 1,214 Republic Jamaica 470 : : : : 483 483 3.937 32,505 2,622 21,711 9,283 343,873 Cuba :::::: 253.802 280,380 364,122 329,932 951,258 80,382 105,619 376.219 46.943 14.511 Total To East Coast South America America (other) | 2.863 19,086 155,833 23,548 81,223 20,912 123,781 38,927 8 123.781 52.419 183,171 9,305 584,928 110,497 83,091 8,227 351,494 4,712 55.592 5,792 bia 193,983 10,835 50,992 193,983 9,972 15,828 : : Brazil Намаії..... WEST COAST CANADA..... Mainland Total United States Costa Rica El Salvador....... Guatemala Honduras Mexico Balboa, R.P.² Total Central America Central America (other)1 Colombia South America (other)1 Total South America WEST COAST CENTRAL AMERICA: WEST COAST NORTH AMERICA: WEST COAST SOUTH AMERICA:

PANA	AMA C	CANAL CON	MISSION	
40,123 32,005	47,442 36,778 156,348	425,733 30,972 62,618 2,673 189,366	512 42,715 57,485 13,485 111,482 937,041	4,289,554
6,200	708	37,768	2,814 6,222 46,807	629,404
45 9,450	1,383	978 1,017	359 2,814 37 2,814 9,821 6,22 22,724 46,80	342,016
35,313	34,941	950	6,602 377 47,485 11,126 9,821 134,662 22,724	125,728
4,704 35,313	7,864 34,941 12,652 35,313 51,296	20,991 317 1,215	57 96 6602 419 32,382 90 6,602 36,766 500 4,814 11,126 49,158 172,765 30,727 134,662	1,038,559
4,704	7,864 84 12,652	29,674 60,386	32,382	215,250
	4,136	1,723	57 419 36,766 49,158	148,041
	33,351 4,136 33,351 4,136	404,742	31 10,000 13,485 42,233 480,198	1,190,556
686'9	29,986	124,525 6,167 7,864 150,712	1,071 13,025 18,405 132,930 454,699	2,975,811
	49	1,260 508 23,433	2,422	0.2
686'9	28,759 49 35,748 49	95,214 . 3,803 5,732	913 8,485 18,405 18,405 275,014	1,160,953
	1,227	28,790 554 1,273 22,348	111 1,100 8,388 62,564	707,305
		521 550 351 	1,018 1,100 1,018 1,100 19,261 8,388 47,870 62,564	1,007,137
OCEANIA: Australia British Oceania	Verferin Oceania New Zealand Oceania (other)! Total Oceania	ASIA: China Taiwan Hong Kong Indonesia Japan	Singapore Status Singapore South Korea South Korea Thailand U.S.S.R. Asia (other)!	GRAND TOTAL

See footnotes at end of table.

Table 9.-Origin and Destination of Commercial Cargo through the Panama Canal from Pacific to Atlantic during Fiscal Year 1992 Segregated by Countries in Principal Trade Routes-Continued

[Long tons]

To Europe	Nether- Spain/ United Yugo Fed Rep. Europe Finland France Italy lands Portugal Sweden Kingdom U.S.S.R. slavia of Germany (other) ¹ Total	917 62,298 175,759 32,173 13,149 130,374 588,684	241,761 592,421 1,388,018 477,821 128,992 344,944 148,091 75,912 427,319 1577,08 6,344,717	269,423 683,530 777,480 689,626 1,567,840 40,996 5,506 303,157 1,594,148	591 4,168 386 8,526 60,411 3,025	888 1,014 8 6 5,607 12,637 25,037 4.767 1.004 1.31 23.30	808	6,024 31,367 4,925 3,859 983 133,000	13,539 116 1,299 16 1 6,801 37,021	87,242 10,537 50,167 159,555 30,791	1,703 2,430 10,419 194 202 17 1,345 20	761 110,973 18,593 34,538 52,663 13,653 15,906 7 266,762 239,264	250,467 519,900 253,858 28,528 207,119 84,253 73 451,365 785,077	4,389 77 22,459 4,601 8,278 1,856 3,084 134,641 25,627 217,501	. 14,335 313,047 37,837 41,744 796 9,090 4,869 1,567 501,428 206,465	. 102,307 143,555 36,137 68,767 2,797 54,561 6,666 22,077 193,330 134,882	<u>50,820</u> <u>90,579</u> <u>46,803</u> <u>31,530</u> <u>2,179</u> <u>25,208</u> <u>19,849</u> <u>3,937</u> <u>54,420</u> <u>146,140</u>	369 100 101 201 101 101 100 100 100 100 100
	Den- Belgium mark Finland Fran			603,700 56,508 269,4	2,074 5	4,877			43,900	3.437	170	134,976 7		12,489 4,3	: : : : : : : : : : : : : : : : : : : :			006 182
	_	AlaskaHawaii	•	WEST COAST CANADA	WEST COAST CENTRAL AMERICA: Costa Rica	El Salvador	Honduras	Mexico	Panama	Central America (other)	.,	Total Central America	MERICA:					Total South America

PANAMA CA	MAE COMMISSION	
130,046 222,389 222,389 73,946 833,050	24,815 13,916 5,336 206,284 6,630 2,340 12,844 12,844 12,844 346,381 346,381	34.8
39,389 91,570 5,836 136,795	20,947 869 320 68,868 1,176 1,176 1,176 1,176 136,890	7.9
32,317 26,749 13,860 72,926	3,868 261 604 8,470 1,130 1,881 1,881 24,851 2,445,259	3.9
		0.2
	95	0.5
10,575 222,389 59,681 32,911 325,556	3,697 36 25,088 1150 123 3,754 32,942 32,942	4.1
6,242	309 2,952 18 18 3,494 233,969	0.4
	347 1,701 28 347 1,701 28 347 2,431 309 3,678 2,952 861 2,952 861 18 4,147 596 1,968 89,992 7,059 33,969	2.6
20 969 27,923 3,744 349 7,355 13,346 17,694 369 8,417 42,059 24,495		8.7
969 7,355 8,417	7,334 2,300 18,677 124 74,924 3,678 1,376 5,134 6,035 36,834 1,683 1,134 1,36 1,134 1,135 1,134 1,137	3.5
349	7,334 2,300 1,8677 73 2,000 1,336 5,134 36,854	
2,424		0.0
2,424	416 416 416 416 416 81633 2424	0.1
12,643 2,424 20 969 183,725 349 7,335 17,399 213,767 2,424 369 8,417	1,392 7,298 2,460 416 801 11,953 416 3,381,401 81,635 2,424	5.4
		: :
		argo .
		ound ca
ania. tania nd	 Siand:	ntic-be
EANIA: Australia British Oceania New Zedand Oceania (other)! Total Oceania	China China Taiwan Hong Kong Indonesia Philippine Islands Singapore South Korea Thailand U.S.S. Asia (other) Total Asia	of Atla
OCEANIA: Australia. British Oc French Oc New Zeala Oceania ((ASIA: Chim Taiw Taiw Hon Indo Japa Phili Sing U.S. Asia	Percent of Atlantic-bound cargo
0	<	<u>a</u>

See footnotes at end of table.

Table 9.—Origin and Destination of Commercial Cargo Through the Panama Canal from Pacific to Atlantic During Fiscal Year 1992 Segregated by Countries in Principal Trade Routes-Continued

	rcent	of total Atlantic- bound cargo	1.4 0.2 16.8	17.8	0.3 0.1 0.1 0.1 0.0 7.8	8.1 1.7 8.7 4.7 1.4
	a.	Grand b Total c	892,542 109,155 1,510,160 5,11,857	,105,241	207,260 251,361 771,792 35,199 2,651,348 2,651,348 2,651,348 2,651,348 2,651,348 439,452 203,608 15,724 15,724 4,850,785	5,077,233 1,046,945 5,459,762 2,923,406 876,578 15,383,924
		Total	3,333 892,542 109,155 1,745,772 10,510,160 1,749,105 11,511,857	5,421 298,792 192,033 1,864,312 11,105,241	27,881 29,561 7,834 20,487 267 267	78,781 5,077,233 70 1,046,945 4,239 5,459,765 44,617 2,923,408 158 876,578 127,865 15,383,924
		Africa (other) 1	•	192,033	15,289 7,854 9,747 267	16,524 70 1,725
		Africa Tunisia (other)'	46,149 148,485 46,149 148,485	298,792		10,300
	To Africa	South Africa	43,304	5,421		10,300
	To ,	Могоссо	33,417 43,304 33,417 43,304	119,688 1,248,378		2,514 5,904 84 35,812 5,904 84
		Евурі	3,333 1,387,480 1,390,813	119,688	27,881 14,272 10,740 52,893	33,298 2,514 35,812
		Algeria	86,937	:		18,659 38,713 57,372
[Long tons]	To Asia (Middle East)	Asia (Middle East)	6,455	148,744	1,091	16,320 31,593 4,607 52,520
01]		WEST COAST NORTH AMERICA:	Onico States: Alexani Hawaii Mainland Total United States	WEST COAST CANADA	WEST COAST CENTRAL AMERICA: Costa Rica El Salvador Guatemala Honduras Honduras Mexico Nicaragua Panana Central America (other) Balboa, R.P.?	WEST COAST SOUTH AMERICA: Chile

_			_	0.4) 000		63 3.2	62 1.7	_	14 1.0	_	40 0.3					7	32 25.2	=======================================	100.0%
2,435,78	281,09	:	51 889,520				1,978,863	_	_		9		504,549	_	148,290		00 2,313,83	11,444 15,715,632	27 62,426,847	6.2
:			18,551	0	1 23,051						5,944			:		:	5,500		3,861,827	
:		:	. 9,791	4,500	. 14,29		:	:	:	:	. 5,766	:	:	:	:	:	5,500	. 11,266	417,625	6 0.7
								:			178				:				355,241	.1 0.6
																: : : : : :		17	48,987	.1 0.1
			4,481		4,481													:	1,292,180	
:									:	:		:		:					1,599,206	2.6
:	:	:	4,279		4,279		:		:			:	:	:	:	:		:	148,588	0.2
3,795	:	:	591	385	4,771		:	49	36	:	1,532	:	53	:	:	:		1,646	411,008	0.7
OCEANIA: Australia	British Oceania	French Oceania	New Zealand	Oceania (other) ¹	Total Occania	ASIA:	China	Taiwan	Hong Kong	Indonesia	Japan	Philippine Islands	SingaporeSingapore	South Korea	Thailand	U.S.S.R.	Asia (other)1	Total Asia	GRAND TOTAL	Percent of Atlantic-bound cargo

¹ Also includes cargo not routed to permit segregation between definite countries.
² Includes both local and transshipped cargo.

[Industrial of form]			
		Fiscal year	
	1992	1991	1990
EAST COAST UNITED STATES TO WEST COAST UNITED STATES:			
Canned and refrigerated foods, miscellaneous	6	1	
Chemicals and petroleum chemicals	968	603	541
Caustic soda	105	78	119
Chemicals, unclassified	725	397	332
Petroleum chemicals, miscellaneous	138	128	90
Grains	•••••	• • • • • • • • •	57
Soybeans	42	• • • • • • •	57
Lumber and products, miscellaneous	43 19		
Machinery and equipment	4		•••••
Automobiles, parts and accessories Construction machinery and equipment	15	1	
Manufactures of iron and steel	4	2	
Angles, shapes and sections	<u> </u>		******
Other and unclassified	3	2	
Ores and metals, miscellaneous		6	
Petroleum and petroleum products	407	387	801
Crude oil			91
Diesel oil	10		
Fuel oil, residual	40	68	29
Gasoline	128	77	339 35
Jet fuel	15 185	212	271
Lubricating oil	103	212	36
Other and unclassified	29	30	
Miscellaneous	168	73	40
Carbon black	43		
Wax paraffin	7		
Container cargo	97	37	29
All other and unclassified	21	36	
Total	1,615	<u>1,073</u>	1,439
EAST COAST UNITED STATES TO WEST COAST CANADA:			
Chemicals and petroleum chemicals	10	59	48
Chemicals, unclassified	4	30	4
Petroleum chemicals, miscellaneous	6	29	44
Lumber and products	20		
Pulpwood	20		
Machinery and equipment	5	• • • • • • •	<u></u>
Electrical machinery and apparatus	5		
Manufactures of iron and steel	• • • • • • • • • • • • • • • • • • • •	16	• • • • • • •
Plates, sheets and coils	• • • • • • •	10	
Wire, bars and rods	• • • • • • • •	6	194
Nitrates, phosphates and potash	•••••		
Phosphates	•••••		194
Total	35	<u>153</u>	<u>243</u>
EAST COAST UNITED STATES TO WEST COAST			
CENTRAL AMERICA:			
Chemicals and petroleum chemicals	77	21	17
Caustic soda	8	. 8	.5
Chemicals, unclassified	68	13	12

		Fiscal year	
TART COACT VINVERD OF A THE ME WHEN COACT	1992	1991	1990
EAST COAST UNITED STATES TO WEST COAST CENTRAL AMERICA—Continued			
Chemicals and petroleum chemicals—Continued			
Petroleum chemicals, miscellaneous	1		
Coal and coke (excluding petroleum coke)		36	
Coal		36	
Grains	2,448	1,965	2,014
Barley	1		
Corn	651	998	1,229
Rice	54	17	
Sorghum	729	218	272
Soybeans	410	202	152
Wheat	463	528	361
Other and unclassified	140	2	• • • • • • • • • • • • • • • • • • • •
Lumber and products, miscellaneous	2	• • • • • • •	1
Machinery and equipment	2	• • • • • •	• • • • • •
Construction machinery and equipment	1		
Electrical machinery and apparatus	1		
Manufactures of iron and steel, miscellaneous	• • • • • • •	8	9
Minerals, miscellaneous	10	2	• • • • • • •
Soda and sodium compounds	3	2	
Sulfur	7	• • • • • • •	• • • • • •
Nitrates, phosphates and potash	542	1,091	1,328
Ammonium compounds	136	164	181
Phosphates	191	799	989
Potash Fertilizers, unclassified	34	23	4
Ores and metals	181 75	105	154 113
Ores, miscellaneous		27	
Metals	3	6	112
Scrap	$\frac{72}{72}$	21	113
Other agricultural commodities	. –	21 4	113
Oilseeds	•••••	4	38
Sugar	• • • • • •	4	26 12
Petroleum products	470	370	363
Diesel oil	259	173	144
Fuel oil, residual	239	173	144
Gasoline	139	143	196
Jet fuel	27	15	8
Kerosene	4	2	8
Liquefied gas	14	6	5
Lubricating oil	6	2	
Other and unclassified		29	2
	126	146	83
Carbon black	1	• • • • • •	• • • • • • •
Flour, wheat	20		• • • • • •
Oil, vegetable	20	3 24	17
Paper and paper products	20 26	24 49	28
	20	47	20

	1	Fiscal year	
Γ	1992	1991	1990
EAST COAST UNITED STATES TO WEST COAST CENTRAL AMERICA—Continued Miscellaneous—Continued			
Tallow	42	69	37
Container cargo	5 12	· · · · · · i	·····i
Total	3,752	3,670	3,966
EAST COAST UNITED STATES TO WEST COAST SOUTH AMERICA:			
Canned and refrigerated foods	13	7	4
Canned foods	2	<u></u>	• • • • • • •
Milk Refrigerated foods	2 11	····· <u>·</u>	<u>4</u>
Meat	1		
Other and unclassified	10 299	273	275
Caustic soda	116	113	81
Chemicals, unclassified	143	136	181
Petroleum chemicals, miscellaneous Coal and coke (excluding petroleum coke)	40 24	24 173	13 525
Coal	24	173	525
Grains	1,349	1,615	1,514
Corn	695	504	349
Oats	7 50	59	1 174
Sorghum	68	54	30
Sovbeans	57	24	90
Wheat Other and unclassified	467 5	949 25	865 5
Lumber and products	3	9	4
Plywood, veneers, composition board			1
Pulpwood	2	8	2
Other and unclassified	1 107	1 61	1 74
Agricultural machinery and implements		12	15
Automobiles, trucks, accessories and parts	7 9	31	28
Construction machinery and equipment Electrical machinery and apparatus	10 2	11	18 7
Other and unclassified	10	5	6
Manufactures of iron and steel	89	61	45
Angles, shapes and sections	. 3	11	5
Nails, tacks and spikes Plates, sheets and coils	11	3	4
Tubes, pipes and fittings	10	16	5
Wire, bars and rods	44	31	28
Other and unclassified	18 15	17	3
AsbestosSoda and sodium compounds	15	2 15	18
Sulfur Nitrates, phosphates and potash	632	583	452
Ammonium compounds	23	28	14
Fishmeal Phosphates	335	13 178	197
.			-

AST COAST UNITED STATES TO WEST COAST SOUTH AMERICA—Continued Nitrates, phosphates and potash—Continued Potash	1992	1991	1990
Nitrates, phosphates and potash—Continued Potash Fertilizers, unclassified	61		
Potash Fertilizers, unclassified	61		
Fertilizers, unclassified	61		
Ores and metals		33	35
	213 117	331	206
Ores		107	63
Alumina/bauxite	20	17	18
Other and unclassified	7 13		1
Metals	97	17 90	17 45
Aluminum	3		18
Iron		1	10
Scrap	94	89	26
Other agricultural commodities	101	89	51
Beans, edible	7	8	6
Copra and coconuts			ĭ
Cotton, raw	2		ī
Oilseeds		1	
Peas, dry	3	5	3
Skin and hides	1	1	1
Sugar	87	74	36 36
Petroleum products	428	387	352
Diesel oil	110	220	202
Fuel oil, residual	77	37	202
Gasoline	70	73	39
Jet fuel	29		42
Kerosene	29	• • • • • • • •	27
Liquefied gas Lubricating oil	64	37	7
Other and unclassified	21 28	20	34
Miscellaneous	1,609	1,327	1 979
Bricks and tile	1		
Carbon black	i	• • • • • • • •	I
Clay, fire and china	2	6	5
Fibers, plant			Ĭ
Flour, wheat	59	82	73
Glass and glassware	1		1
Liquors and wines		1	2
Marble and stone	1 10	• • • • • • •	• • • • • •
Oil, coconut	10	6	6
Oil, fish		ĭ	
Oil, vegetable	33	34	30
Paper and paper products	268	248	187
Resin	20	16	19
Rubber, manufactured	4	5	3
Seeds, excluding oilseeds	2		
Textiles	63 5	54	34
Container cargo	1,014	4 766	3 548
All other and unclassified	1,014	104	66
Total	4,786	4,709	4,360
	7,700	7,709	4,300
T COAST UNITED STATES TO BALBOA, R.P.:			
Canned and refrigerated foods, miscellaneous	• • • • • • •	2	5

		Fiscal year	
	1992	1991	1990
EAST COAST UNITED STATES TO BALBOA, R.P.—			
Continued	10	10	
Chemicals and petroleum chemicals	19	10	11
Caustic soda	4	4 5	4
Chemicals, unclassified	14 1	3 1	6 1
Grains	242	182	113
Corn	108	62	32
Soybeans	48	36	25
Wheat	81	84	55
Other and unclassified	5		1
Minerals, miscellaneous			2
Nitrates, phosphates and potash	3	3	•••••
Potash		2	• • • • • • •
Fertilizers, unclassified	3 7	1 4	9
Ores and metals	7		
Ores		4	9
Alumina/Bauxite	1	• • • • • • •	3
ManganeseOther and unclassified	6	4	6
Petroleum products	296	263	249
Diesel oil	91	97	84
Fuel oil, residual	181	160	143
Gasoline	22	2	20
Jet fuel	1		1
Kerosene		3	
Other and unclassified	1 41	1 36	1 41
Groceries, miscellaneous	1		2
Oil, vegetable	13	10	4
Tallow	7	10	2
Container cargo	13	19	27
All other and unclassified	7	1	6
Total	608	500	429
EACT COACT UNITED CTATES TO HAWAII.			
EAST COAST UNITED STATES TO HAWAII: Machinery and equipment			9
Electrical machinery and apparatus	•••••	• • • • • • • • • • • • • • • • • • • •	9
Petroleum products			31
Jet fuel		•••••	31
Miscellaneous	4		
All other and unclassified	4		
Total	4		40
10000			====
EAST COAST UNITED STATES TO OCEANIA:			
Canned and refrigerated foods	22	10	16
Refrigerated foods	22	10	16
Other and unclassified	22	10	16
Chemicals and petroleum chemicals	<u>659</u>	<u>828</u>	648
Caustic soda	433	688	517
Chemicals, unclassified	188	132	116
Petroleum coke, miscellaneous	38	8 14	15 32
Coke	•••••	14	32
Out	• • • • • •	14	32

		Fiscal year	
	1992	1991	1990
EAST COAST UNITED STATES TO OCEANIA— Continued			
Grains	169	131	94
Corn	2	11	18
Sorghum			3
Soybeans	167	115	60
Wheat Other and unclassified		5	13
Lumber and products	18	14	22
Pulpwood	18	14	22
Machinery and equipment	6	7	15
Agricultural machinery and equipment	2	2	2
Automobiles, trucks, accessories and parts	1	2	11
Construction machinery and equipment	3	2	1
Other and unclassified		1	1
Manufactures of iron and steel	2	42	11
Angles, shapes and sectionsPlates, sheets and coils	1	1 39	1 6
Tubes, pipes and fittings		2	3
Wire, bars and rods			ĭ
Other and unclassified	1		
Minerals, miscellaneous	•••••	18	39
Soda and sodium compounds		18	39
Nitrates, phosphates and potash	1,106	905	885
Ammonium compounds	67	13	492
Phosphates	814 33	623 35	483 42
Fertilizers, unclassified	192	234	351
Ores and metals	31	39	15
Ores	29	39	8
Alumina/bauxite		2	3
Lead		15	
Zinc	29	6	5
Other and unclassified	2	16	7
Aluminum	2	•••••	<u>′</u>
Zinc			5
Other agricultural commodities, miscellaneous			9
Petroleum products	280	377	274
Diesel oil	33		
Fuel oil, residual	3	46	3
GasolineLiquefied gas	36 54	66 60	35 35
Lubricating oil	13	28	25
Petroleum coke	140	173	133
Other and unclassified	1	4	43
Miscellaneous	747	618	632
Bricks and tile	5	3	• • • • • • •
Carbon black	25	29	37
Groceries, miscellaneous	3		
Oil, vegetable	1	2	.1
Paper and paper products	19 9	12	11
Porcelainware	y		• • • • • • •

		Fiscal year	
	1992	1991	1990
EAST COAST UNITED STATES TO OCEANIA— Continued Miscellaneous—Continued			
Resin	10	13	3
Rubber, manufactured Container cargo	641	535	6 555
All other and unclassified	34	24	19
Total	3,040	3,003	2,692
EAST COAST UNITED STATES TO ASIA:	420	400	200
Canned and refrigerated foods	438	408	<u>298</u>
Canned foods Fruit	2	•••••	2
Canned food, miscellaneous	2		10
Refrigerated foods:	434	408	286
Bananas		1	• • • • • •
Dairy products Fish	5	• • • • • • •	·····i
Fruit, excluding bananas	130	136	44
Meat	7 292	10 261	2 239
Other and unclassified	3,734	4,377	3,605
Caustic soda	38	75	138
Chemicals, unclassified	2,718	2,652	2,262
Petroleum chemicals, miscellaneous	978 3,849	1,650 3,651	1,205 4,205
Coal and coke (excluding petroleum coke)	3,841	3,377	4,153
Coke	8	274	52
Grains	25,074	25,085	23,835
Barley	56	13,404	12 249
Corn	12,868 14	15,404	12,348
Rice	8	6	13
Sorghum	1,143 6,508	1,426 5,847	1,718 5,625
Soybeans	4,206	4.024	3,934
Other and unclassified	271	362	197
Lumber and products	4,341	3,350	2,301
Boards and planks Plywood, veneers, composition board	65 1	147	9
Pulpwood	1,257	744	728
Other and unclassified	3,018	2,459	1,564
Machinery and equipment	142	$\frac{-69}{2}$	45 8
Automobiles, trucks, accessories and parts	19	13	8
Construction machinery and equipment	41	31	19
Electrical machinery and apparatus	7 53	3	3
Other and unclassified	16	20	7
Manufactures of iron and steel	718	2,140	1,203
Angles, shapes and sections	64	117	85
Nails, tacks and coilsPlates, sheets and coils	391	1,466	900
Tubes, pipes and fittings	92	77	10
Wires, bars and rods	16	236	100

Continued Manufactures of iron and steel—Continued Continued Continued			Fiscal year	
Continued Manufactures of iron and steel—Continued 154 244 108 Minerals, miscellaneous 2 12 65 Asbestos 1 2 11 9 Sulfur 2 11 9 9 Nitrates, phosphates and potash 6,631 6,924 5,861 Ammonium compounds 95 240 8 Phosphates 5,834 6,134 4956 Potash 166 228 93 Fertilizers, unclassified 362 304 Ores and metals 1,401 2,050 1,958 Ores 60 67 56 Alumina/bauxite 12 12 2 9 Copper 18 20 31 1 4 1		1992	1991	1990
Other and unclassified 154 244 108 Minerals, miscellaneous 2 12 65 Asbestos 1 2 Soda and sodium compounds 2 11 9 Sulfur 54 Nitrates, phosphates and potash 6,631 6,924 5,361 Ammonium compounds 95 240 8 Phosphates 5,834 6,134 4,956 Potash 166 228 93 Fertilizers, unclassified 56 322 304 Ores and metals 1,401 2,050 1,958 Ores 60 67 56 Alumina/ bauxite 12 12 2 Copper 18 20 31 Lead 5 5 5 7 Other and unclassified 20 16 9 Metals 1,341 1,983 1,902 Lead 1,200 1,917 1,853				
Minerals, miscellaneous 2 12 65 Asbestos 1 2 11 9 Sulfur 5 2 11 9 Sulfur 54 11 9 Nitrates, phosphates and potash 6,631 6,924 5,361 Ammonium compounds 95 240 8 Phosphates 5,834 6,134 4,956 Potash 166 228 93 Fertilizers, unclassified 536 322 304 Ores and metals 1,401 2,050 1,958 Ores 60 67 56 Alumina/bauxite 12 12 19 Copper 18 20 31 Lead 5 5 7 Other and unclassified 20 16 9 Metals 1,341 1,983 1,902 Aluminum 1 1 6 Copper 1 0 6	Manufactures of iron and steel—Continued			
Asbestos. 1 2 Soda and sodium compounds 2 11 9 Sulfur. 54 Nitrates, phosphates and potash. 6,631 6,924 5,361 Ammonium compounds 95 240 8 Phosphates 5,834 6,134 4,956 Potash. 166 228 93 Fertilizers, unclassified 536 322 304 Ores and metals 1,401 2,050 1,958 Ores 60 67 56 Alumina/ bauxite 12 12 29 Copper 18 20 31 Lead 5 5 5 Manganese 14 Zine 5 5 7 Other and unclassified 20 16 9 Metals 1,341 1,983 1,902 Aluminum 1 6 Copper 1 6 Iron	Other and unclassified	154	244	108
Soda and sodium compounds 2 11 5 Nitrates, phosphates and potash 6,631 6,924 5,361 Ammonium compounds 95 240 8 Phosphates 5,834 6,134 4,956 Potash 166 228 93 Fertilizers, unclassified 536 322 304 Ores and metals 1,401 2,050 1,958 Ores and metals 1,401 2,050 1,958 Ores 60 67 56 Alumina/bauxite 12 12 12 9 Copper 18 20 31 1 20 31 Lead 5 5 5 7 7 0 16 9 31 1,902	Minerals, miscellaneous	2	12	65
Sulfur 5,361 Nitrates, phosphates and potash 6,631 6,924 5,361 Ammonium compounds 95 240 8 Phosphates 5,834 6,134 4,956 Potash 166 228 93 Fertilizers, unclassified 356 322 304 Ores and metals 1,401 2,050 1,958 Ores 60 67 25 2 Alumina/bauxite 12 12 2 9 Copper 18 20 31 Lead 5 5 7 7 Other and unclassified 20 16 9 4 7 2 1 4 2 1 4 2 1 4 2 1 6 6 6 1 6 7 7 1 2 6 1 7 1 2 2 6 1 2 2 6 1 9 2 1 2 <td></td> <td></td> <td></td> <td></td>				
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Ammonium compounds 95 240 8 Phosphates 5,834 6,134 4,956 Potash 166 228 93 Fertilizers, unclassified 536 322 304 Ores and metals 1,401 2,050 1,958 Ores 60 67 56 Alumina/bauxite 12 12 12 9 Copper 18 20 31 14 20 31 14 20 31 14 20 31 14 20 31 14 20 31 14 20 31 14 20 31 14 20 31 14 20 31 14 20 31 14 32 32 34 32 34 34 30 32 34 34 34 34 34 34 34 34 34 34 34 34 34 34 34 34 34 34 <td></td> <td>((21</td> <td>6.004</td> <td></td>		((21	6.004	
Phosphates 5,834 6,134 4,956 Potash 166 228 93 Fertilizers, unclassified 536 322 304 Ores and metals 1,401 2,050 1,958 Ores 60 67 75 Alumina/bauxite 12 12 9 Copper 18 20 31 Lead 5 5 5 7 Metals 1,341 1,983 1,902 Aluminum 1 1 1 Copper 1 1 6 I company 1 1 1 Copper 1 1 1 1 Copper 1	• •			
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Ores 60 67 56 Alumina/bauxite 12 12 9 Copper 18 20 31 Lead 5	Fertilizers, unclassified			
Ores 60 67 56 Alumina/bauxite 12 12 19 Copper 18 20 31 Lead 5 Manganese 14 Zinc 5 5 7 Other and unclassified 20 16 9 Metals 1,341 1,983 1,902 Aluminum 1 6 Copper 1 6 Iron 105 52 3 Lead 3 Scrap 1,200 1,917 1,853 Tin, including tinplate 2 Zinc 5 Other agricultural commodities 66 86 125 Beans, edible 2 67 Cotton, raw 25 62 45 Molasses 6 15 11 Oilseeds				
Alumina/bauxite 12 12 9 Copper 18 20 31 Lead 5 Manganese 14 Zinc 5 5 7 Other and unclassified 20 16 9 Metals 1,341 1,983 1,902 Aluminum 1 6 Copper 1 6 Iron 105 52 3 Lead 105 52 3 Scrap 1,200 1,917 1,853 Tin, including tinplate 2 Zine 5 Other and unclassified 33 8 37 Other agricultural commodities 66 86 125 Beans, edible 2 6 45 Cotton, raw 25 62 45 Molasses 6 15 11 Oliseeds 35 1 2 Petroleum products <	Ores			
Copper 18 20 31 Lead 5 14	Alumina/bauxite			9
Manganese 14 Zinc 5 5 7 Other and unclassified 20 16 9 Metals 1,341 1,983 1,902 Aluminum 1 1 6 Copper 1 1 6 Iron 105 52 3 Lead 33 Scrap 1,200 1,917 1,853 Tin, including tinplate 2 2 7 5 3 3 3 37 Other and unclassified 33 8 37 33 8 37 Other agricultural commodities 66 86 125 8 8 125 62 45 46 125 6 26 45 46 125 6 26 45 46 125 6 24 46 125 46 46 125 46 46 125 46 46 125 46 46 120 120 120	Copper		20	31
Zinc 5 5 7 Other and unclassified 20 16 9 Metals 1,341 1,983 1,902 Aluminum 1 - Copper 1 6 Iron 105 52 3 Lead 3 3 3 3 Scrap 1,200 1,917 1,853 1 1,853 1 1,200 1,917 1,853 1 1,200 1,917 1,853 1 1,200 1,917 1,853 3 </td <td></td> <td>5</td> <td></td> <td></td>		5		
Other and unclassified 20 16 9 Metals 1,341 1,983 1,902 Aluminum 1 1 6 Copper 1 6 1 6 Iron 105 52 3 Lead 30 1,200 1,917 1,853 Tin, including tinplate 2 2 Zinc 5 0 Other and unclassified 33 8 37 Other agricultural commodities 66 86 125 Beans, edible 2 6 2 67 Cotton, raw 25 62 45 Molasses 6 15 11 Oilseeds 35 1 2 Peas, dry 5 6 15 11 Oilseeds 35 1 2 Petroleum products 2,096 2,921 1,836 Diesel oil 163 269 273 Fuel oil, resid				
Metals 1,341 1,983 1,902 Aluminum 1			-	
Aluminum 1 Copper 1 6 Iron 105 52 3 Lead 3 Scrap 1,200 1,917 1,853 Tin, including tinplate 2 Zinc 5 Other and unclassified 33 8 37 Other agricultural commodities 66 86 125 Beans, edible 2 67 Cotton, raw 25 62 45 Molasses 6 15 11 Oilseeds 35 1 2 Peas, dry 6 2 Peas, dry 6 Petroleum products 2,096 2,921 1,836 Diesel oil 163 269 273 Fuel oil, residual 78 383 93 Gasoline 341 381 55 Jet fuel 217 448 289 Kerosene 194				
Copper 1 6 Iron 105 52 3 Lead 3 3 Scrap 1,200 1,917 1,853 Tin, including tinplate 2 2 Zinc 5 5 Other and unclassified 33 8 37 Other agricultural commodities 66 86 125 Beans, edible 2 67 Cotton, raw 25 62 45 Molasses 6 15 11 Oilseeds 35 1 2 Peas, dry 6 1 2 Petroleum products 2,096 2,921 1,836 Diesel oil 163 269 273 Fuel oil, residual 78 383 93 Gasoline 341 381 55 Jet fuel 217 448 289 Kerosene 194 66 Liquefied gas 360 535 <	Aluminum			1,702
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Scrap 1,200 1,917 1,853 Tin, including tinplate 2 2 Zinc 5 3 Other and unclassified 33 8 37 Other agricultural commodities 66 86 125 Beans, edible 2 67 62 45 Molasses 6 15 11 01 01seeds 6 15 11 01 01seeds 35 1 2 Peas, dry 6 2 Peas, dry 6 2 Peas, dry 6	Iron	105	52	3
Tin, including tinplate 2 Zinc 5 Other and unclassified 33 8 37 Other agricultural commodities 66 86 125 Beans, edible 2 67 Cotton, raw 25 62 45 Molasses 6 15 11 Oilseeds 35 1 2 Peas, dry 6 2 6 Petroleum products 2,096 2,921 1,836 Diesel oil 163 269 273 Fuel oil, residual 78 383 93 Gasoline 341 381 55 Jet fuel 217 448 289 Kerosene 194 66 14 66 6 14 14 129 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 104 1				-
Zinc 5 Other and unclassified 33 8 37 Other agricultural commodities 66 86 125 Beans, edible 2 67 Cotton, raw 25 62 45 Molasses 6 15 11 Oilseeds 35 1 2 Peas, dry 6 Petroleum products 2,096 2,921 1,836 Diesel oil 163 269 273 Fuel oil, residual 78 383 93 Gasoline 341 381 55 Jet fuel 217 448 289 Kerosene 194 66 Liquefied gas 360 535 319 Lubricating oil 174 129 104 Petroleum coke 755 575 591 Other and unclassified 8 7 46 Miscellaneous 7,701 7,934 7,229 <td></td> <td></td> <td>1,917</td> <td>1,853</td>			1,917	1,853
Other and unclassified 33 8 37 Other agricultural commodities 66 86 125 Beans, edible 2 67 Cotton, raw 25 62 45 Molasses 6 15 11 Oilseeds 35 1 2 Peas, dry 6 Petroleum products 2,096 2,921 1,836 Diesel oil 163 269 273 Fuel oil, residual 78 383 93 Gasoline 341 381 55 Jet fuel 217 448 289 Kerosene 194 66 Liquefied gas 360 535 319 Lubricating oil 174 129 104 Petroleum coke 755 575 591 Other and unclassified 8 7 46 Miscellaneous 7,701 7,934 7,229 Bricks and tile 8 <td></td> <td>2</td> <td> 5</td> <td>• • • • • • •</td>		2	5	• • • • • • •
Beans, edible 2 67 Cotton, raw 25 62 45 Molasses 6 15 11 Oilseeds 35 1 2 Peas, dry 6 Petroleum products 2,096 2,921 1,836 Diesel oil 163 269 273 Fuel oil, residual 78 383 93 Gasoline 341 381 55 Jet fuel 217 448 289 Kerosene 194 66 Liquefied gas 360 535 319 Lubricating oil 174 129 104 Petroleum coke 755 575 591 Other and unclassified 8 7 46 Miscellaneous 7,701 7,934 7,229 Bricks and tile 8		33		37
Cotton, raw 25 62 45 Molasses 6 15 11 Oilseeds 35 1 2 Peas, dry 6 Petroleum products 2,096 2,921 1,836 Diesel oil 163 269 273 Fuel oil, residual 78 383 93 Gasoline 341 381 55 Jet fuel 217 448 289 Kerosene 194 66 Liquefied gas 360 535 319 Lubricating oil 174 129 104 Petroleum coke 755 575 591 Other and unclassified 8 7 46 Miscellaneous 7,701 7,934 7,229 Bricks and tile 8	Other agricultural commodities	66	86	125
Molasses 6 15 11 Oilseeds 35 1 2 Peas, dry 6 Petroleum products 2,096 2,921 1,836 Diesel oil 163 269 273 Fuel oil, residual 78 383 93 Gasoline 341 381 55 Jet fuel 217 448 289 Kerosene 194 66 Liquefied gas 360 535 319 Lubricating oil 174 129 104 Petroleum coke 755 575 591 Other and unclassified 8 7 46 Miscellaneous 7,701 7,934 7,229 Bricks and tile 8 Carbon black 59 38 21 Cement 4 4 Clay, fire and china 589 542 535 Flour, wheat 96 37 Groceries, miscellaneous 35 31 43 Marble and s			2	67
Oilseeds 35 1 2 Peas, dry 6 Petroleum products 2,096 2,921 1,836 Diesel oil 163 269 273 Fuel oil, residual 78 383 93 Gasoline 341 381 55 Jet fuel 217 448 289 Kerosene 194 66 Liquefied gas 360 535 319 Lubricating oil 174 129 104 Petroleum coke 755 575 591 Other and unclassified 8 7 46 Miscellaneous 7,701 7,934 7,229 Bricks and tile 8 Carbon black 59 38 21 Cement 4 4 Clay, fire and china 589 542 535 Flour, wheat 96 37 Groceries, miscellaneous 35 31 43		25	62	
Peas, dry 6 Petroleum products 2,096 2,921 1,836 Diesel oil 163 269 273 Fuel oil, residual 78 383 93 Gasoline 341 341 381 55 Jet fuel 217 448 289 Kerosene 194 66 Liquefied gas 360 535 319 Lubricating oil 174 129 104 Petroleum coke 755 575 591 Other and unclassified 8 7 46 Miscellaneous 7,701 7,934 7,229 Bricks and tile 8 7 46 Carbon black 59 38 21 Cement 4 4 4 Clay, fire and china 589 542 535 Flour, wheat 96 37 1 Groceries, miscellaneous 35 31 43 Marble and stone 32 35 31 43				
Petroleum products 2,096 2,921 1,836 Diesel oil 163 269 273 Fuel oil, residual 78 383 93 Gasoline 341 381 55 Jet fuel 217 448 289 Kerosene 194 66 Liquefied gas 360 535 319 Lubricating oil 174 129 104 Petroleum coke 755 575 591 Other and unclassified 8 7 46 Miscellaneous 7,701 7,934 7,229 Bricks and tile 8 7 46 Carbon black 59 38 21 Cement 4 4 4 Clay, fire and china 589 542 535 Flour, wheat 96 37 Groceries, miscellaneous 35 31 43 Marble and stone 32 35 16		35	_	2
Diesel oil 163 269 273 Fuel oil, residual 78 383 93 Gasoline 341 381 55 Jet fuel 217 448 289 Kerosene 194 66 Liquefied gas 360 535 319 Lubricating oil 174 129 104 Petroleum coke 755 575 591 Other and unclassified 8 7 46 Miscellaneous 7,701 7,934 7,229 Bricks and tile 8		2.006	-	1 836
Fuel oil, residual 78 383 93 Gasoline 341 381 55 Jet fuel 217 448 289 Kerosene 194 66 Liquefied gas 360 535 319 Lubricating oil 174 129 104 Petroleum coke 755 575 591 Other and unclassified 8 7 46 Miscellaneous 7,701 7,934 7,229 Bricks and tile 8 Carbon black 59 38 21 Cement 4 4 Clay, fire and china 589 542 535 Flour, wheat 96 37 Groceries, miscellaneous 35 31 43 Marble and stone 32 35 16				
Gasoline 341 381 55 Jet fuel 217 448 289 Kerosene 194 66 Liquefied gas 360 535 319 Lubricating oil 174 129 104 Petroleum coke 755 575 591 Other and unclassified 8 7 46 Miscellaneous 7,701 7,934 7,229 Bricks and tile 8 Carbon black 59 38 21 Cement 4 4 Clay, fire and china 589 542 535 Flour, wheat 96 37 Groceries, miscellaneous 35 31 43 Marble and stone 32 35 16	Fuel oil, residual			
Kerosene 194 66 Liquefied gas 360 535 319 Lubricating oil 174 129 104 Petroleum coke 755 575 591 Other and unclassified 8 7 46 Miscellaneous 7,701 7,934 7,229 Bricks and tile 8 Carbon black 59 38 21 Cement 4 4 Clay, fire and china 589 542 535 Flour, wheat 96 37	Gasoline			
Liquefied gas 360 535 319 Lubricating oil 174 129 104 Petroleum coke 755 575 591 Other and unclassified 8 7 46 Miscellaneous 7,701 7,934 7,229 Bricks and tile 8 Carbon black 59 38 21 Cement 4 4 4 Clay, fire and china 589 542 535 Flour, wheat 96 37 Groceries, miscellaneous 35 31 43 Marble and stone 32 35 16		217		
Lubricating oil 174 129 104 Petroleum coke 755 575 591 Other and unclassified 8 7 46 Miscellaneous 7,701 7,934 7,229 Bricks and tile 8 Carbon black 59 38 21 Cement 4 4 Clay, fire and china 589 542 535 Flour, wheat 96 37 Groceries, miscellaneous 35 31 43 Marble and stone 32 35 16				
Petroleum coke 755 575 591 Other and unclassified 8 7 46 Miscellaneous 7,701 7,934 7,229 Bricks and tile 8 Carbon black 59 38 21 Cement 4 4 Clay, fire and china 589 542 535 Flour, wheat 96 37 Groceries, miscellaneous 35 31 43 Marble and stone 32 35 16				
Other and unclassified 8 7 46 Miscellaneous 7,701 7,934 7,229 Bricks and tile 8 Carbon black 59 38 21 Cement 4 4 Clay, fire and china 589 542 535 Flour, wheat 96 37 Groceries, miscellaneous 35 31 43 Marble and stone 32 35 16	Petroleum coke			
Bricks and tile 8 Carbon black 59 38 21 Cement 4 4 4 589 542 535 Flour, wheat 96 37 37 37 Groceries, miscellaneous 35 31 43 Marble and stone 32 35 16	Other and unclassified			
Carbon black 59 38 21 Cement 4 Clay, fire and china 589 542 535 Flour, wheat 96 37 Groceries, miscellaneous 35 31 43 Marble and stone 32 35 16	Miscellaneous	7,701	7,934	7,229
Cement 4 Clay, fire and china 589 542 535 Flour, wheat 96 37 Groceries, miscellaneous 35 31 43 Marble and stone 32 35 16		8		
Clay, fire and china 589 542 535 Flour, wheat 96 37 Groceries, miscellaneous 35 31 43 Marble and stone 32 35 16		59	38	
Flour, wheat 96 37 Groceries, miscellaneous 35 31 43 Marble and stone 32 35 16			540	•
Groceries, miscellaneous 35 31 43 Marble and stone 32 35 16	Flour wheat			333
Marble and stone	Groceries, miscellaneous	, -		43
Oil, vegetable	Marble and stone		7.7	16
	Oil, vegetable	91	64	67

		Fiscal year	
	1992	1991	1990
EAST COAST UNITED STATES TO ASIA— Continued			
Miscellaneous—Continued			
Paper and paper products	495	473 5	292
Resin	10	13	14
Rubber, manufactured			6
Seeds, excluding oilseeds	55 5	2	• • • • • • • •
Wax, paraffin			8
Container cargo	6,057	6,495	6,117
All other and unclassified	169	199	106
Total	56,193	59,007	52,066
EAST COAST CANADA TO WEST COAST UNITED STATES:			
Canned and refrigerated foods, miscellaneous	1		1
Miscellaneous	89	49	53
Container cargo	89	45 4	53
Total	90	49	54
EAST COAST CANADA TO WEST COAST CENTRAL AMERICA:			
Canned and refrigerated foods	3	4	2
Canned foods	3	1	1
Fish	1		1
Milk		1	• • • • • • •
Vegetables, canned	2	3	1
Coal and coke (excluding petroleum coke)	275	33	
Coal	275	33	
Grains	10	14	8
Corn	4 6	5	8
Lumber and products, miscellaneous			4
Manufactures of iron and steel		30	
Wire, bars and rods	• • • • • •	30	
Nitrates, phosphates and potashOther agricultural commodities	·····i	14 1	6 1
Beans, edible	<u> </u>	1	
Miscellaneous	8	13	8
Flour, wheat	2	2	2
Oil, vegetable	5	2	1 4
All other and unclassified	1		i
Total	297	109	28
EAST COAST CANADA TO WEST COAST SOUTH AMERICA:			
Canned and refrigerated foods	2	3	1
Canned foods	2	3	
Fish		1	
Milk	2	2	1
Coal and coke (excluding petroleum coke)	•••••	77	98

		Fiscal year	
EAST COAST CANADA TO WEST COAST SOUTH	1992	1991	1990
AMERICA—Continued			
Coal and coke (excluding petroleum coke)—Continued			
Coal		7 7	98
Grain	134	74	<u></u>
Wheat	134	73 I	• • • • • • •
Machinery and equipment, miscellaneous		1	2
Manufactures of iron and steel		20	19
Plates, sheets and coils			4
Wire, bars and rods	• • • • • • •	14	15
Minerals, miscellaneous	9	6 10	4
Asbestos	9	10	4
Nitrates, phosphates and potash	24	_ 37	73
Phosphates		16	10
Potash	24	21	63
Other agricultural commodities, miscellaneous Miscellaneous	2 59	1 24	30
Flour, wheat	3	10	9
Groceries, miscellaneous	ĭ		
Paper and paper products	40	11	15
Resin	1 8	• • • • • •	3
All other and unclassified	6	3	3
Total	230	247	227
EAST COAST CANADA TO OCEANIA: Canned and refrigerated foods, miscellaneous Lumber and products, miscellaneous. Manufactures of iron and steel, miscellaneous Nitrates, phosphates and potash Phosphates Potash Ores and metals Ores Alumina/bauxite Miscellaneous Paper and paper products Container cargo All other and unclassified Total	30 30 10 10 40 44 36	3 49 17 32 85 82 3 137.	14 1 7 30 30 154 32 122 206
EAST COAST CANADA TO ASIA.			
EAST COAST CANADA TO ASIA: Canned and refrigerated foods	37	49	59
Canned foods	1		
Fruit	1		
Refrigerated foods	36	49	59
Fish	21	39	50
Other and unclassified	15	10	9 7
Grains	5	152	116
Sorghum		8	

		Fiscal year	
	1992	1991	1990
EAST COAST CANADA TO ASIA—Continued			
Grains—Continued			
Soybeans	5	.37	10
Wheat Lumber and products	137	107 155	106 184
Plywood, veneers, composition board		7	
Pulpwood	132	142	165
Other and unclassified	5 5	6 5	19 7
Agricultural machinery and equipment Construction machinery and equipment	1	1	2
Other and unclassified	4	4	3
Manufactures of iron and steel	348	714	383
Angles, shapes and sections	17	48	37
Plates, sheets and coils	230	435	154
Tubes, pipes and fittings	31 45	42	
Wire, bars and rods Other and unclassified	25	87 102	59 133
Minerals, miscellaneous	3	6	
Asbestos	3	6	
Nitrates, phosphates and potash	189	212	96
Potash	189	212	96
Ores and metals	73	135	225
Ores	26	51	77
Copper	5	5	25
Zinc		6	10
Other and unclassified Metals	21 47	40 84	42 148
Aluminum		8	
Copper	3		1
Iron	17		
Lead	2	1	I
Scrap	24	73 2	146
Other and unclassified	1		
Petroleum products		81	126
Diesel oil		28	
Fuel oil, residual			93
Gasoline	• • • • • • •	26	
Jet fuel Lubricating oil	• • • • • •	27	25 8
Miscellaneous	482	456	450
Clay, fire and china		22	
Marble and stone	82	51	42
Paper and paper products	113	104	166
Slag, clinkers and dross	5 271	46 217	30 209
Container cargo	11	16	209
Total	1,279	1,965	1,653
		= 1,700	
EAST COAST CENTRAL AMERICA TO WEST COAST			
UNITED STATES:			
Machinery and equipment	3		
Automobiles, trucks, accessories and parts	3		
Petroleum products	•••••	87	• • • • • • •

		Fiscal year	
	1992	1991	1990
EAST COAST CENTRAL AMERICA TO WEST COAST			
UNITED STATES:—Continued Petroleum products—Continued			
•		4	
Diesel oil		83	
Miscellaneous			64
Cement			64
Total	3	87	64
EAST COAST CENTRAL AMERICA TO WEST COAST			
CENTRAL AMERICA: Lumber and products, miscellaneous		20	
Manufactures of iron and steel	·····i		2
Tubes, pipes and fittings	1		
Nitrates, phosphates and potash	224	199	338
Ammonium compounds		22	41
Phosphates		9	28
Fertilizers, unclassified	224 817	168 671	269 872
Petroleum and petroleum products	- 017	19	22
AsphaltCrude oil	311	278	435
Diesel oil	35	2	90
Fuel oil, residual	41		19
Gasoline	23 407	55 317	64 226
Liquefied gas Other and unclassified	407	317	16
Miscellaneous	2	2	14
Cement			13
Container cargo	• • • • • • •		1
All other and unclassified	2	2	1.226
Total	1,044	892	1,226
EAST COAST CENTRAL AMERICA TO WEST COAST			
SOUTH AMERICA:			_
Chemicals and petroleum chemicals	11	4	3
Caustic soda	1		3
Chemicals, unclassified	9 1	4	3
Machinery and equipment	i		2
Automobiles, trucks, accessories and parts	1		1
Electrical machinery and apparatus			1
Manufactures of iron and steel	22	6	7
Angles, shapes and sections	20	1 5	6
Tubes, pipes and fittings	20	3	1
Other and unclassified	2		
Minerals, miscellaneous	1	1	1
Soda and sodium compounds	1	1	1
Nitrates, phosphates and potash	147	57	90
Phosphates	1 146	1 56	4 86
Fertilizers, miscellaneous Ores and metals	2	6	6
Ores	1	6	3
Manganese		2	2
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	•		

		Fiscal year	
EAST COAST CENTRAL AMERICA TO WEST COAST SOUTH AMERICA—Continued	1992	1991	1990
Ores and metals—Continued			
Ores—Continued			
Other and unclassified	1	4	1
Metals	1	• • • • • • • •	3
Aluminum	1		
Scrap			3
Other agricultural commodities	2	14	2
Rubber, raw	2	1	2
Sugar		13	
Petroleum products	93	<u> 125</u>	268
Diesel oil		28	140
Fuel oil, residual	26		32
Gasoline		3	
Jet fuel	6		9
Liquefied gas	61	94	87
Miscellaneous	105	90	<u>71</u>
Bricks and tile	1		
Fibers, plant	1		• • • • • •
Glass and glassware	1	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •
Paper and paper products	9 7	11	1
Resin	2	1	1 3
Rubber, manufactured Textiles	2	1	1
Container cargo	61	50	52
All other and unclassified	21	23	13
Total	384	303	450
1 Otal			====
EAST COAST CENTRAL AMERICA TO BALBOA. R.P.:			
Lumber and products, miscellaneous			1
Petroleum and petroleum products	394	122	121
Crude oil	6		
Diesel oil	9Ĭ	26	25
Fuel, oil, residual	297	97	91
Jet fuel			5
Miscellaneous	2		
Container cargo	1		
All other and unclassified	1		
Total	396	122	122
			_
EAST COAST CENTRAL AMERICA TO ASIA:			
Canned and refrigerated foods	5	4	3
Refrigerated foods	5	4	3
Bananas	5		2
Fish			ĩ
Chemicals and petroleum chemicals	30	36	27
Chemicals, unclassified	25	31	27
Petroleum chemicals, miscellaneous	5	5	
Machinery and equipment, miscellaneous		2	
Manufactures of iron and steel	28	34	86
Angles, shapes and sections			3
Plates, sheets and coils	ii	2	42
Tubes, pipes and fittings	17	32	36

		Fiscal year	
	1992	1991	1990
EAST COAST CENTRAL AMERICA TO ASIA— Continued			
Manufactures of iron and steel—Continued			
Other and unclassified	10		5
Nitrates, phosphates and potash	57	213	124
Fertilizers, unclassified	57 2	213 9	124 2
Ores and metals	$\frac{2}{2}$	4	$\frac{2}{2}$
Manganese	2	4	$\frac{2}{2}$
Metals	<u></u>		<u></u>
Iron		5	
Other agricultural commodities	4	1	1
Cotton, raw	4	1	1
Rubber, raw Petroleum products	52	66	87
Diesel oil	50		27
Gasoline		24	
Jet fuel Liquefied gas	• • • • • • •	10 32	60
Lubricating oil	2		
Miscellaneous	82	39	74
Cement	27	• • • • • •	• • • • • •
Paper and paper products	5 33	30	16
Container cargo		2	54
All other and unclassified	17	7	4
Total	<u>260</u>	<u>404</u>	403
EAST COAST SOUTH AMERICA TO WEST COAST			
UNITED STATES:	2	2	2
Canned and refrigerated foods	$\frac{2}{2}$	$\frac{2}{2}$	$\frac{2}{2}$
Chemicals and petroleum chemicals	72	48	•••••
Chemicals, unclassified	72	27	• • • • • • • • • • • • • • • • • • • •
Petroleum chemicals, miscellaneous  Lumber and products	46	21 48	56
Boards and planks	2	2	6
Plywood, veneers, composition board	2	3	6
PulpwoodOther and unclassified	42	42 1	42 2
Machinery and equipment, miscellaneous			4
Manufactures of iron and steel	<u>742</u>	665	584
Angles, shapes and sections	4	• • • • • •	
Nails, tacks and spikes  Plates, sheets and coils	529	599	483
Tubes, pipes and fittings	1	6	5
Wire, bars and rods Other and unclassified	76 132	13 47	29 66
Ores and metals	83	83	68
Ores	46	64	66
Alumina/bauxite	11	11	42
Iron		53	24
Other and unclassified	35 37	19	2
Michael			

		Fiscal year	
	1992	1991	1990
EAST COAST SOUTH AMERICA TO WEST COAST			
UNITED STATES—Continued			
Ores and metals—Continued  Metals—Continued			
			•
Aluminum	37	19	2
Other agricultural commodities	37		8
Beans, edible		******	1
Cocoa and cacao beans	3		3
Coffee			4
Petroleum and petroleum products	1,534	1,412	786
Crude oil	798	422	286
Diesel oil		77	
Fuel oil, residual	548	658	49
Gasoline		71	329
Jet fuel	175	84	122
Other and unclassified	13	100	250
Miscellaneous	252	604	250
Bricks and tile	97	422	114
Cement Oil, vegetable		432 34	114
Paper and paper products	3	3	9
Slag, clinkers and dross			23
Container cargo	144	127	92
All other and unclassified	8	8	11
Total	2,734	2,862	1,758
EAST COAST SOUTH AMERICA TO WEST COAST			
CANADA:		•	,
Lumber and products	1	2	6
Boards and planks	1		1
Plywood, veneers, composition board Pulpwood	• • • • • •	2	1 4
Manufactures of iron and steel	40	56	72
Nails, tacks and spikes	1		
Plates, sheets and coils	17	20	27
Tubes, pipes and fittings	3	13	10
Wire, bars and rods	15	20	31
Other and unclassified	4	3	4
Ores and metals, miscellaneous	6		3
Other agricultural commodities, miscellaneous			1
Miscellaneous	25	<u>87</u>	88
Bricks and tile	• • • • • • •		1
Cement	· · · · · · i	38 1	20 2
Slag, clinkers and dross	10	37	27
Container cargo	14	8	29
All other and unclassified		3	9
Total	72	145	170
EAST COAST SOUTH AMERICA TO WEST COAST			
CENTRAL AMERICA:	-		
Canned and refrigerated foods	1		• • • • • •
Refrigerated foods	1	1	• • • • • • •
Fish	1	1	

		Fiscal year	
	1992	1991	1990
EAST COAST SOUTH AMERICA TO WEST COAST CENTRAL AMERICA—Continued			
Chemicals and petroleum chemicals, miscellaneous Coal and coke (excluding petroleum coke)	132	·····	1
Coal	132	71	
Lumber and products	2	2	• • • • • • •
Boards and planks	1	1	
Plywood, veneers, composition board	1 261	1 175	133
Angles, shapes and sections	9		11
Plates, sheets and coils	61	65	36
Wire, bars and rods	93 98	80 30	18 68
Other and unclassified	23	48	19
Nitrates, phosphates and potash  Ammonium compounds			14
Fertilizers, unclassified	23 7	48 9	5 20
Ores and metals		3	
Ores	$\frac{3}{2}$		•••••
ManganeseOther and unclassified	3	3	
Metals	2	6	20
Aluminum	1	2	1 18
Iron Tin, including tinplate	· · · · · · i	3	i
Zinc	î	1	
Other agricultural commodities		55	81
Sugar		55	81
Petroleum and petroleum products	1,576	1,432	1,552
Crude oil	1,357	1,241	935 48
Diesel oil	182	• • • • • • •	493
Gasoline	36	148	30
Liquefied gas			4
Lubricating oil	1		
Other and unclassified	60	43 25	42 30
Miscellaneous	60		1
Bricks and tile			i
Oil, vegetable	7	10	5
Paner and paper products	2		1
Slag clinkers and dross	16	11	21
Container cargo	23 12	4	1
All other and unclassified	2,062	1,818	1,836
Total			
EAST COAST SOUTH AMERICA TO WEST COAST SOUTH AMERICA:			
Canned and refrigerated foods, miscellaneous			4
Chemicals and petroleum chemicals	19	21	32
Caustic soda		4	20
Chemicals unclassified	14 5	11 6	29 3
Petroleum chemicals, miscellaneous	86	488	152
Coal and coke (excluding perforcing coke)	77	464	149
Coal	• • •		

		Fiscal year	
	1992	1991	1990
EAST COAST SOUTH AMERICA TO WEST COAST			
SOUTH AMERICA—Continued			
Coal and coke (excluding petroleum coke)—Continued	0	24	•
Coke	9	24	3 1
Grains	<del>9</del> 1	27	
Oats Rice	1	1 21	1
Soybeans	8	5	
Lumber and products	5	3	2
Pulpwood	5	2	2
Other and unclassified		1	
Machinery and equipment	8	8	8
Agricultural machinery and equipment	1	2	1
Automobiles, trucks, accessories and parts	6	5	4
Construction machinery and equipment	1	1	2 1
Electrical machinery and apparatus	185	133	134
Manufactures of iron and steel	6	3	27
Angles, shapes and sectionsPlates, sheets and coils	60	45	20
Tubes, pipes and fittings	3	10	10
Wire, bars and rods	89	62	66
Other and unclassified	27	13	11
Minerals, miscellaneous	31	28	36
Asbestos		1	1
Salt	31	26	28
Soda and sodium compounds Sulfur	• • • • • •	1	1
Nitrates, phosphates and potash	246	93	127
Ammonium compounds	23	17	33
Phosphates	5	i	3
Fertilizers, unclassified	218	75	91
Ores and metals	27	27	24
Ores	8	14	12
Alumina/bauxite	7	14	11
Manganese	.1		1
Metals	19	13	12
Aluminun	3	3	3
Iron	6	5	6
Scrap Tin, including tinplate	7	4	ii
Other and unclassified		i	2
Other agricultural commodities	1	35	39
Cotton, raw	1	1	1
Rubber, raw			1
Sugar		34	37
Petroleum and petroleum products	2,485	2,080	1,198
Asphalt			1
Crude oil	1,660	1,166 180	742 31
Diesel oil	194 68	24	31
Gasoline	470	361	173
Jet fuel	25	38	
Liquefied gas	32	231	204
Lubricating oil	36	80	47

		Fiscal year	
EAST COAST SOUTH AMERICA TO WEST COAST	1992	1991	1990
SOUTH AMERICA—Continued			
Miscellaneous	198	161	89
Bricks and tile	1 7	1 40	7
Class and also was	5		
Glass and glassware  Paper and paper products	2 11	2 23	l
Resin	5	23 7	8 11
Rubber, manufactured		í	i i
Slag, clinkers and dross	21		
Textiles		1	
Container cargo	121 25	68	39
Total	3,300	18	22
Total	3,300	3,104	1,845
EAST COAST SOUTH AMERICA TO BALBOA, R.P.:			
Canned and refrigerated foods, miscellaneous			1
Manufactures of iron and steel, miscellaneous	1	1	
Petroleum and petroleum products	96	56	3
Asphalt Crude oil		• • • • • • •	2
Diesel oil	20 24		• • • • • • •
Fuel oil, residual	50	46	
Liquefied gas	2		
Lubricating oil		10	1
Miscellaneous	2	4	4
Oil, vegetable		3	3
Total	2	1	1 9
10ta1	99	61	
EAST COAST SOUTH AMERICA TO HAWAII:			
Petroleum and petroleum products	193	114	61
Crude oil	66	17	
Diesel oil		6	
Other and unclassified	127	60 31	61
Miscellaneous	109	173	108
Cement	109	51	57
Slag, clinkers and dross		121	51
All other and unclassified	• • • • • • •	1	
Total	302	287	168
EAST COAST SOUTH AMERICA TO OCEANIA:			
Ores and metals, miscellaneous		3	3
Miscellaneous		_	2
Container cargo			1
All other and unclassified		• • • • • • •	1
Total		3	6
EAST COAST SOUTH AMERICA TO ASIA:			
Canned and refrigerated foods	18	17	55
Canned foods, miscellaneous		$\frac{17}{2}$	
Refrigerated foods	18	15	55
Bananas	4	2	4
	-	_	-

[		Fiscal year	
	1992	1991	1990
EAST COAST SOUTH AMERICA TO ASIA—Continued Canned and refrigerated foods—Continued Refrigerated foods—Continued		.,,,	.,,,,
Fish	13	13	38
Meat	1		6
Other and unclassified			7
Chemicals and petroleum chemicals	33	29	22
Chemicals, unclassified	13	20	22
Petroleum chemicals, miscellaneous	20	9	
Coal and coke (excluding petroleum coke)	59	<u>91</u>	52
Coal	59	91	52
Grains		25	90
Sorghum		25	
Soybeans			41
Wheat			44
Other and unclassified			5
Lumber and products	23	43	5
Pulpwood	23	43	5
Machinery and equipment, miscellaneous		2	
Manufactures of iron and steel	250	246	453
Angles, shapes and sections	10	5	27
Plates, sheets and coils	104	49	88
Tubes, pipes and fittings			3
Wire, bars and rods	86	134	264
Other and unclassified	50	58	71
Nitrates, phosphates and potash	•••••	•••••	149
Fertilizers, unclassified			149
Ores and metals	835	841	894
Ores	366	<u>305</u>	<u>294</u>
Alumina/bauxite	74	65	72
Chrome	40	67	
Copper			10
Iron	120	108	158
ManganeseOther and unclassified	132	65	39 15
Metals	469	536	600
Aluminum	425	433	380
Iron	38	100	208
Scrap		100	6
Zinc	1		
Other and unclassified	5		6
Other agricultural commodities	14	4	12
Beans, edible			3
Cocoa and cacao beans	2	2	2
Coffee			2
Cotton, raw	12	1	4
Oilseeds	• • • • • • •	• • • • • • • •	1
Wool, raw	540	1	104
Petroleum products	540	92	194
Asphalt	108	33	
Diesel oil	52	26	68 25
Jet fuel	170	26 29	23 97
Liquefied gas	170	4	4
~-d 0		7	-

		Fiscal year	
	1992	1991	1990
EAST COAST SOUTH AMERICA TO ASIA— Continued			
Petroleum products—Continued			
Other and unclassified	210		
Miscellaneous	146	180	133
Clay, fire and china	106	110	45
Marble and stone			2
Oil, vegetable	10		
Paper and paper products	14	10	2 3
Seeds, excluding oilseeds			3
Slag, clinkers and dross		33	
Textiles	· · · · · · · <u>·</u>		1
Container cargo	7 9	11 16	62 15
Total	1,918	1,570	2,059
10(a)	1,516	1,370	2,039
WEST INDIES TO WEST COAST UNITED STATES:			
Chemicals and petroleum chemicals, miscellaneous		6	
Manufactures of iron and steel	25	14	17
Plates, sheets and coils	13	5	
Wire, bars and rods  Nitrates, phosphates and potash	12 38	9	17
Ores and metals		93	86
Ores		53	86
Alumina/bauxite		53	86
Metals	• • • • • • •	30	• • • • • • • •
Aluminum		30	
Petroleum and petroleum products	<u>426</u>	1,035	647
AsphaltCrude oil		17 46	35
Diesel oil	43	54	5
Fuel oil, residual	277	775	492
Gasoline	70 36	• • • • • •	33 28
Liquefied gas	30		26 17
Other and unclassified		143	37
Miscellaneous	9	16	14
Container cargo	9	14	13
All other and unclassified		2	1
Total	498	1,164	764
WEST INDIES TO WEST COAST CENTRAL AMERICA:			
Chemicals and petroleum chemicals, miscellaneous			3
Grains	11	• • • • • • •	• • • • • • •
Rice	11	• • • • • • •	• • • • • • •
Machinery and equipment, miscellaneous	1 12	10	• • • • • • • •
Plates, sheets and coils	7	9	******
Other and unclassified	Ś	í	
Nitrates, phosphates and potash	95	32	32
Ammonium compounds	38		
Fertilizers, unclassified	57	32 49	32 10
Other agricultural commodities	•••••		

		Fiscal year	
	1992	1991	1990
WEST INDIES TO WEST COAST CENTRAL AMERICA: Other agricultural commodities—Continued			
Sugar		49	10
Petroleum and petroleum products	114	133	199
Crude oil		44	17
Diesel oil	27	33	22
Fuel oil, residual	48	33	151
Gasoline	38	46	8
Jet fuel	56	5	i
Liquefied gas	·····i	5	•
Miscellaneous	4	6	28
	<del></del>		1
Glass and glassware		1	5
Oil, vegetable Paper and paper products			2
	2	2	17
Container cargo	2	3	3
Total	<u>237</u>	<u>230</u>	<u>272</u>
WEST INDIES TO WEST COAST SOUTH AMERICA:			2
Canned and refrigerated foods, miscellaneous		16	2
Chemicals and petroleum chemicals, miscellaneous		16	
Manufactures of iron and steel	30	26	8
Plates, sheets and coils	7	10	
Wire, bars and rods	23	16	6
All other and unclassified			2
Nitrates, phosphates and potash	82	38	63
Ammonium compounds	4		
Fertilizers, unclassified	78	38	63
Ores and metals	5		25
Ores	5		
	5	******	*******
Alumina/bauxite	-		25
	• • • • • • •	•••••	
Iron	• • • • • •	• • • • • • •	2
Scrap	470	220	23
Petroleum and petroleum products	479	339	446
Crude oil	28		105
Diesel oil	135	91	76
Fuel oil, residual	15	23	4
Gasoline	159	170	168
Jet fuel	30	13	27
Liquefied gas	47	11	
Lubricating oil	65	31	66
Miscellaneous	3	5	11
Oil, coconut		1	
Paper and paper products	I		1
Container cargo	1		5
All other and unclassified	1	4	5
Total	599	424	555
WEST INDIES TO DAI DOA D.D.			
WEST INDIES TO BALBOA, R.P.:	•		
Chemicals and petroleum chemicals	2	• • • • • • •	•••••
Chemicals, unclassified	2		
Ores and metals	• • • • • • •	3	• • • • • • •
Ores, miscellaneous		3	

		Fiscal year	
	1992	1991	1990
WEST INDIES TO BALBOA, R.P.—Continued			20
Petroleum and petroleum products	72	61	22
Crude oil	20 34	30	20
Gasoline	13	21 10	2
Miscellaneous	1	1	<u></u>
All other and unclassified	1	1	•••••
Total	75	<u>65</u>	=====
WEST INDIES TO HAWAII: Petroleum products	59	33	3
Diesel oil	59	33	3
Total	59	33	3
WEST INDIES TO OCEANIA:			
Nitrates, phosphates and potash	10	• • • • • • • •	• • • • • • •
Fertilizers, unclassified	10		• • • • • • •
Other agricultural commodities	<u>51</u>	38	• • • • • • •
Sugar Miscellaneous	1	4	4
Container cargo	1	4	4
Total	62	42	4
WEST INDIES TO ASIA:	22	32	37
Canned and refrigerated foods	$\frac{23}{23}$	32	37
Refrigerated foods	22	23	25
Fruit, excluding bananas		8	11
Other and unclassified	1	1	1
Chemicals and petroleum chemicals		91	145
Chemicals, unclassified  Petroleum chemicals, miscellaneous	31 48	19 72	138
Machinery and equipment, miscellaneous  Manufactures of iron and steel	103	121	1 70
Plates, sheets and coils	6 97	55 55	8 59
Other and unclassified		11	3
Nitrates, phosphates and potash	• • • • • • • •	34	24
Ammonium compounds		13 21	24
Fertilizers, unclassifiedOres and metals	47	14	<u></u>
Metals	47	14	
Aluminum	28	14	
Iron	18		• • • • • • •
Zinc	1,314	1,244	1,223
Other agricultural commodities	<u>1,514</u>	1,2-1-7	
Coffee	1,311	1,244	1,223
Petroleum products	181	3	171
Diesel oil		• • • • • • •	34

,		Fiscal year	
	1992	1991	1990
WEST INDIES TO ASIA—Continued Petroleum products—Continued			
Fuel oil residual	39		
Gasoline	29		65
Jet fuel	110	3	32 6
Lubricating oil		3	34
Miscellaneous	107	150	143
Liquors and wines	• • • • • • •		1
Oil, vegetable	107	19 129	141
Container cargo  All other and unclassified		2	
Total	1,854	1,689	1.814
EUROPE TO WEST COAST UNITED STATES: Canned and refrigerated foods	47	69	60
Canned foods	1	<u></u>	1
Fruit	1		1
Refrigerated foods, miscellaneous	46	69	59
Chemicals and petroleum chemicals	54	43	30
Caustic soda	48	1 42	30
Chemicals, unclassified	6	42	
Grain		159	
Barley		77	
Oats		82	
Lumber and products, miscellaneous		2	8
Machinery and equipment	104	121	185
Agricultural machinery and implements  Automobiles, trucks, accessories and parts	3 97	2 115	1 172
Construction machinery and equipment	3	2	3
Electrical machinery and apparatus		$\overline{2}$	1
Other and unclassified	1		8
Manufactures of iron and steel	541	535	593
Angles, shapes and sections	13	19	23
Nails, tacks and spikes  Plates, sheets and coils	348	436	1 381
Tubes, pipes and fittings	17	24	20
Wires, bars and rods	35	27	92
Other and unclassified	128	29	76
Nitrates, phosphates and potash	271	250	399
Ammonium compounds	22 54	52 7	79
Phosphates			15
Potash	3		10
Fertilizers, unclassified	192	191	295
Ores and metals	16	6	9
Ores	13	5	• • • • • • • • • • • • • • • • • • • •
Manganese	12	5	• • • • • • •
Other and unclassified	13 3	· · · · · · i	9
Aluminum	<del></del> 1		
Iron			7
Tin, including tinplate	1	1	
Zinc	1	• • • • • • •	• • • • • • •

		Fiscal year	
	1992	1991	1990
EUROPE TO WEST COAST UNITED STATES—			
Continued			2
Other agricultural commodities, miscellaneous			2
Petroleum products	88	96	387
Fuel oil, residual	33	39 57	238
Jet fuel			36
Lubricating oil	6		
Other and unclassified	49		113
Miscellaneous	1,574	1,915	1,984
Bricks and tile	5	3	2
Cement	70	426	230
Glass and glassware	1	• • • • • • • •	
Groceries, miscellaneous		1	2
Marble and stone	2	5	5
Oil, vegetable	15	20	17
Paper and paper products	8	33	1 (09
Container cargo All other and unclassified	1,461 12	1,385 42	1,608 54
Total	2,695	3,196	3,657
10ta1	2,093	3,190	3,037
EUROPE TO WEST COAST CANADA:	_		
Canned and refrigerated foods	9	12	9
Refrigerated foods, miscellaneous	9	12	9 1
Lumber and products, miscellaneous	6	11	14
Agricultural machinery and implements	1	<del></del> 1	
Automobiles, trucks, accessories and parts	4	10	11
Construction machinery and equipment	1		2
Other and unclassified			115
Manufactures of iron and steel	78	97	115
Angles, shapes and sections	2 48	14 60	5 67
Plates, sheets and coils	2	7	6
Wire, bars and rods	9	12	25
Other and unclassified	17	4	12
Nitrates, phosphates and potash	11	• • • • • •	17
Ammonium compounds	11	• • • • • • •	
Fertilizers, unclassified Ores and metals	5	87	17 75
		87	75
Ores	5		
Other and unclassified		87	75
Petroleum products		6	• • • • • • •
Lubricating oil		6	
Miscellaneous	178	169	186
Bricks and tile	2	• • • • • • • • • • • • • • • • • • • •	• • • • • • • •
Marble and stone	• • • • • • •	1	1
Paper and paper products	167	164	175
Container cargo	9	4	9
Total	287	382	417
A V W		=====	

		Fiscal year	
	1992	1991	1990
EUROPE TO WEST COAST CENTRAL AMERICA:	17	,	11
Canned and refrigerated foods	$\frac{17}{6}$	$\frac{6}{5}$	
Canned foods	<del>6</del>	3	$\frac{7}{3}$
Milk Canned food, miscellaneous	0	1	3
Refrigerated food	11	i	4
Dairy products	2	1	
Meat	6		
Other and unclassified	3	14	4 25
Chemicals and petroleum chemicals	50	1	23
Caustic soda Chemicals, unclassified	27	13	20
Petroleum chemicals, miscellaneous	23		3
Grains	37	76	52
Barley	1	30	2
Oats	1 8	30	5
Rice	0	2	
Wheat	19	8	41
Other and unclassified	7	6	4
Lumber and products, miscellaneous			20
Machinery and equipment	6	$\frac{8}{2}$	$\frac{20}{2}$
Agricultural machinery and implements Automobiles, trucks, accessories and parts	1	4	12
Construction machinery and equipment	3	i	4
Electrical machinery and apparatus	1	1	1
Other and unclassified	1		1
Manufactures of iron and steel	92	45	67
Angles, shapes and sections	27	17	1 29
Tubes, pipes and fittings			í
Wire, bars and rods	53	26	22
Other and unclassified	12 1	2	14
Minerals, miscellaneous		$\frac{2}{2}$	$\frac{3}{2}$
AsbestosSoda and sodium compounds	·····i	2	1
Nitrates, phosphates and potash	291	342	306
Ammonium compounds	124	198	41
Nitrate of soda	2	10	
Potash	21	7	265
Fertilizers, unclassified	144 31	127	265 8
Ores, miscellaneous	1	•••••	
Metals	30		Ź
Aluminum			1
Copper	3		
Iron		• • • • • • •	2
Scrap Tin, including tinplate	26 1		2
Zinc			ĩ
Other and unclassified			. 1
Other agricultural commodities	198	181	<u>141</u>
Cotton, raw	198	2 91	90
Sugar	190	88	51

		Fiscal year	
	1992	1991	1990
EUROPE TO WEST COAST CENTRAL AMERICA—			
Continued  Petroloum products	26		22
Petroleum products	36	•••••	32
Diesel oil	35	• • • • • • •	13
Jet fuel	33	• • • • • •	ĺ
Liquefied gas			3
Lubricating oil	1		9
Miscellaneous	89	54	110
Cement	7		
Flour, wheat	13	3	4
Glass and glassware			2
Groceries, miscellaneous	1	3	1 2
Liquors and wines			2
Oil, vegetable	2	1	2
Paper and paper products	6	3	24
Resin			1
Rubber, manufactured			1
Seeds, excluding oilseeds	14	• • • • • • •	
Tallow Textiles	• • • • • • •		1
Wax, paraffin	1	1	3
Container cargo	22	30	39
All other and unclassified	23	13	27
Total	848	728	777
EUROPE TO WEST COAST SOUTH AMERICA:			
Canned and refrigerated foods	23	11	10
Canned foods	13	4	6
Fish			1
Milk	13	4	5
Refrigerated foods	10	7	4
Dairy products	2		1
FishOther and unclassified	4	5 2	3
Chemicals and petroleum chemicals	40	73	63
Caustic soda	20	3	5
Chemicals, unclassified	19	69	32
Petroleum chemicals, miscellaneous	1	1	26
Grains	73	40	43
Barley	5	2	8
Oats	13		
Rice		4	2 5
Sorghum	5 23	29	17
Wheat Other and unclassified	27	5	ii
Lumber and products, miscellaneous	1		
Machinery and equipment	63	45	69
Agricultural machinery and implements	7	5	10
Automobiles, trucks, accessories and parts	36	17	21
Construction machinery and equipment	14	11 8	26
Electrical machinery and apparatus	2 4	8	6
Other and unclassified	152	129	118
Manageduces of front and secondary			

		Fiscal year	
EUDODE TO WEST COAST SOUTH AMERICA	1992	1991	1990
EUROPE TO WEST COAST SOUTH AMERICA— Continued			
Manufactures of iron and steel-Continued			
Angles, shapes and sections	20	5	7
Nails, tacks and spikes	3	6	
Plates, sheets and coils	94 19	69 10	78 8
Wire, bars and rods	18	36	11
Other and unclassified	8	3	14
Minerals, miscellaneous	8	22	23
Asbestos		6	
Borax	• • • • • • •	1 2	1
Soda and sodium compounds	8	13	21
Sulfur			ī
Nitrates, phosphates and potash	346	362	452
Ammonium compounds	49	22	44
Nitrate of soda	l	2	2
Phosphates Potash Potash	6 88	6 87	8 27
Fertilizers, unclassified	202	245	371
Ores and metals	43	15	19
Ores	10	7	6
Chrome	8	6	6
Manganese		l	
Tin	2		12
Metals	$\frac{33}{21}$	8	<del>13</del> 6
Scrap	5		
Tin, including tinplate	7	5	6
Zinc			1
Other agricultural commodities	$\frac{2}{2}$	$\frac{-29}{2}$	$\frac{-60}{2}$
MolassesSugar	2	27	58
Petroleum products	42	179	425
Diesel oil	1	64	146
Fuel oil, residual	1	36	118
Gasoline			87
Jet fuel Liquefied gas	5	41	22 18
Lubricating oil	35	36	25
Other and unclassified		2	9
Miscellaneous	<u>971</u>	810	811
Bricks and tile	2	1	4
Carbon black	1	i	·····i
Clay, fire and china			í
Fibers, plant		1	1
Flour, wheat	62	45	46
Glass and glassware	2 3	4	2 2
Oil, vegetable			4
Paper and paper products	33	46	62
Resin	l	1	1
Rubber, manufactured		1	• • • • • •

		Fiscal year	
EUROPE TO WEST COAST SOUTH AMERICA—	1992	1991	1990
Continued			
Miscellaneous—Continued			
Textiles Wax, paraffin	1 3	3 2	1 3
Container cargo	796	631	568
All other and unclassified	67	74	115
Total	1,764	1,715	2,093
EUROPE TO BALBOA, R.P.:			
Chemicals and petroleum chemicals	8	6	5
Chemicals, unclassified	4	4 2	3 2
Manufactures of iron and steel	2	4	1
Angles, shapes and sections  Plates, sheets and coils	·····i	• • • • • • • •	1
Wire, bars and rods	i	4	
Petroleum products	27	3	5
Fuel oil, residual	23 4	3	5
Miscellaneous	10	6	
Oil vegetable			6
Container cargo	10	5 1	· · · · · · i
Total	47	19	18
EUROPE TO OCEANIA:			
Canned and refrigerated foods	17	11	13
Refrigerated food	17	11	13
Meat Other and unclassified	1 16		1 12
Chemicals and petroleum chemicals	36	127	96
Caustic soda	9	34	42
Chemicals, unclassified	26 1	88 5	50 4
Grains	5	2	2
Sorghum	1 3	• • • • • • •	• • • • • • •
Wheat	1	2	2
Lumber and products	2	1	4
Boards and planks Pulpwood	i	1	4
Other and unclassified	1		
Machinery and equipment  Agricultural machinery and implements	$\frac{17}{2}$	$\frac{27}{3}$	<u>29</u>
Automobiles, trucks, accessories and parts	9	12	21
Construction machinery and equipment  Electrical machinery and apparatus	5 1	7 4	3 2
Other and unclassified		1	
Manufactures of iron and steel	35	57	55
Angles, shapes and sections Nails, tacks and spikes	3 1	5	9
Plates, sheets and coils	11	16	14
Tubes, pipes and fittings	6	13	9

Fiscal year

### Table 10.—Important Commodity Shipments over Principal Trade Routes Atlantic to Pacific—Continued

		I blui yeur	
	1992	1991	1990
EUROPE TO OCEANIA—Continued  Manufactures of iron and steel—Continued			
Wire, bars and rods	10	13	20
Other and unclassified	4	iŏ	3
Minerals, miscellaneous	5	7	7
Salt	4	3	4
Soda and sodium compounds	1	4	3
Nitrates, phosphates and potash	65	46	36
Ammonium compounds	19	10	16
Nitrate of soda			5
Phosphates			5
Potash	4	8	7
Fertilizers, unclassified	42	28	3
Ores and metals	15	22	28
Ores	15	20	8
Lead			8
Other and unclassified	15	20	
Metals		2	20
lron			7
Lead			11
Other and unclassified		2	2
Other agricultural commodities	4	2	2
Oilseeds	3	1	1
Sugar	1	1	1
Petroleum products	14	1	40
Liquefied gas	10	1	9
Lubricating oil	3		5
Petroleum coke			24
Other and unclassified	1		2
Miscellaneous	690	677	<u>702</u>
Bricks and tile	1	3	1
Cement	4		. 5
Flour, wheat	18	15	15
Glass and glassware	1	• • • • • •	1
Liquors and winesOil, vegetable	7	11	1 12
Paper and paper products	15	9	11
Resin	i	,	
Slag, clinkers and dross		2	
Textiles			1
Container cargo	618	583	601
All other and unclassified	25	54	54
Total	905	980	1,014
EUROPE TO ASIA:			
Canned and refrigerated foods	82	108	59
Refrigerated foods	82	108	59
Fish	71	92	56
Fruit, excluding bananas		ī	
Other and unclassified	11	15	3
Chemicals and petroleum chemicals	65	205	152
Caustic soda		6	5
Chemicals, unclassified	63	159	128
Petroleum chemicals, miscellaneous	2	40	19

Fiscal year

### Table 10.—Important Commodity Shipments over Principal Trade Routes Atlantic to Pacific-Continued

FURORE TO ASIA Continued	1992	1991	1990
EUROPE TO ASIA—Continued Grain	94	10	
Barley	27	10	•••••
Wheat	22	10	
Other and unclassified	45		
Lumber and products	19	11	5
Pulpwood Other and unclassified	19	7	5
Machinery and equipment	4	4 17	14
Automobiles, trucks, accessories and parts	3	16	12
Construction machinery and equipment		Î	12
Electrical machinery and apparatus	1		
Other and unclassified	17	25	1
Plates, sheets and coils	<u>17</u>	<u>25</u> 24	•••••
Tubes, pipes and fittings	17	1	• • • • • • •
Nitrates, phosphates and potash	93	7 i	30
Nitrate of soda		1	
Potash	88	46	30
Fertilizers, unclassified Ores and metals	5 41	24 28	47
Ores	41		47
Chrome	14	•••••	• • • • • • • •
Other and unclassified	27		
Metals		28	47
Iron			31
Scrap	• • • • • • •	20	16
Other and unclassified Petroleum products	6	28 16	3
Jet fuel	<u>_</u>	1	
Liquefied gas		6	
Lubricating oil	6	9	3
Miscellaneous	164	163	123
Bricks and tile		4	1
Marble and stone		2	
Oil, vegetable		1	2
Paper and paper products	148	23 114	17
All other and unclassified	16	114	89 14
Total	585	654	433
AFRICA TO WEST COAST UNITED STATES: Machinery and equipment, miscellaneous			
Manufactures of iron and steel	19		11
Plates, sheets and coils	10		
Wires, bars and rods			11
Other and unclassified	9		
Ores misselleness	<u>26</u>	12	21
Ores, miscellaneous	25 1	12	21
Iron	1		• • • • • • •
Other agricultural commodities		18	
Sugar		18	

		Fiscal year	
	1992	1991	1990
AFRICA TO WEST COAST UNITED STATES—			
Continued Petroleum products			54
Fuel oil, residual	•••••	•••••	54
Miscellaneous			58
Cement			34
Marble and stone			1
Slag, clinkers and dross			15
Container cargo	• • • • • •	• • • • • •	7
All other and unclassified	45		145
Total	45	30	145
AFRICA TO WEST COAST CANADA:			
Nitrates, phosphates and potash	851	726	712
Phosphates	851	726	712
Miscellaneous			1
Container cargo			1
Total	851	726	713
AFRICA TO WEST COAST CENTRAL AMERICA:	5.6		
Chemicals and petroleum chemicals	<u>56</u>	••••	• • • • • • •
Chemicals, unclassified		·····i	14
Nitrates, phosphates and potash	163	487	149
Phosphates	134	473	149
Fertilizers, unclassified	29	14	
Ores and metals	4	• • • • • • •	
Ores	3	• • • • • • •	• • • • • • •
Manganese	3		
Metals, miscellaneous	1	• • • • • • •	
Miscellaneous	•••••	• • • • • • • • • • • • • • • • • • • •	
Container cargo	•••••		1
Total	<u> 223</u>	487	<u>164</u>
AFRICA TO WEST COAST SOUTH AMERICA:			
Canned and refrigerated foods	6		
Refrigerated foods	6		
Fish	6		
Chemicals and petroleum chemicals, miscellaneous			12
Grains	<u></u>	• • • • • • • • • • • • • • • • • • • •	14
Corn	;	• • • • • • •	14
Lumber and products, miscellaneous	1 27	18	• • • • • • •
Plates, sheets and coils	27	1	
Wire, bars and rods		17	
Nitrates, phosphates and potash	14	56	16
Phosphates		4	
Fertilizers, unclassified	14	52	16
Petroleum products	12	• • • • • • • • • • • • • • • • • • • •	•••••
Liquefied gas	12		
Miscellaneous	4	$\frac{2}{2}$	$\frac{3}{2}$
Paper and paper products	3	2	2
Communication	3		

Table 10.—Important Commodity Shipments over Principal Trade Routes
Atlantic to Pacific—Continued

		Fiscal year	
AFRICA TO WEST COAST SOUTH AMERICA—	1992	1991	1990
Continued			
Miscellaneous—Continued			
All other and unclassified	1		1
Total	64	76	45
AFRICA TO OCEANIA:			
Nitrates, phosphates and potash	157	145	168
Phosphates	153	118 27	168
Miscellaneous	ĩ	18	
Container cargo	•••••	17	
All other and unclassified	150	1	160
Total	158	163	168
AFRICA TO ASIA:			
Canned and refrigerated foods	27	62	31
Fish, refrigerated	27 32	62 25	31
Phosphates	32	25	• • • • • • • • • • • • • • • • • • • •
Ores and metals, miscellaneous			40
Petroleum products	•••••	55	·····
Gasoline		55 1	4
Container cargo		<del></del>	4
All other and unclassified	<u></u>	1	<u></u>
Total	59	143	75
ASIA (MIDDLE EAST) TO WEST COAST UNITED STATES:			
Canned and refrigerated foods, miscellaneous	3	1	1
Petroleum products	32	• • • • • • • • • • • • • • • • • • • •	59
Gasoline Other and unclassified	32		34 25
Miscellaneous	46	29	38
Container cargo	45	29	38
All other and unclassified	<del>1</del> 81	29	98
Total			
ASIA (MIDDLE EAST) TO WEST COAST			
SOUTH AMERICA: Grains		11	
Rice		11	
Nitrates, phosphates and potash	85	33	35
Phosphates	85	33	35
Petroleum products	19		<u></u>
Liquefied gas	19	33	2
Container cargo	5	33	1
Total	110	77	37
, a			

	Fiscal year		
	1992	1991	1990
ASIA (MIDDLE EAST) TO ASIA			
Chemicals and petroleum chemicals		<u></u>	
Chemicals, unclassified	9		
Other agricultural commodities	4	• • • • • • •	<u></u>
Molasses	4	• • • • • •	• • • • • •
Petroleum products	2	<u></u>	• • • • • •
Lubricating oilOther and unclassified	1	• • • • • • •	• • • • • • •
Miscellaneous	10	16	<u> </u>
Oil Vegetable	1		
Tallow	1		
Container cargo	8	<u> </u>	1
Total	24	16	1

,,			
		Fiscal year	
	1992	1991	1990
WEST COAST UNITED STATES TO EAST COAST UNITED STATES:			
Canned and refrigerated foods	6	<u> </u>	3
Refrigerated foods	6	1	3
Fish	2	1	
Fruit, excluding bananas	2		
Other and unclassified	2	• • • • • • • • • • • • • • • • • • • •	3
Chemicals and petroleum chemicals	58	28	48
Caustic soda	25		
Chemicals, unclassified	33 18	28	48
		•••••	•••••
Coal Lumber and products	18 3	15	23
•	3		23
Boards and planks Pulpwood	3	15	23
Ores and metals	34	10	
Metals	34	10	
Lead		10	•••••
Other and unclassified	34		
Other agricultural commodities	1	9	
Coffee	1		
Molasses		9	
Petroleum and petroleum products	<u> 952</u>	<u>745</u>	633
Crude oil	272	146	123
Diesel oil	45	66	.33
Fuel oil, residual	132 280	31 393	146 120
Jet fuel	200	393	70
Liquefied gas			8
Lubricating oil	154	109	122
Other and unclassified	69		11
Miscellaneous	94	110	107
Liquors and wines			4
Oil, vegetable	29 62	40 68	21 73
All other and unclassified	3	2	9
Total	1,166	918	814
10141	1,100		
WEST COAST UNITED STATES TO EAST COAST CANADA:			
Canned and refrigerated foods	10		
Refrigerated foods	10		<u></u>
Fish	10		
Coal and coke (excluding petroleum coke)		24	24
Coke		24	24
Ores and metals	• • • • • • •	16	<u></u>
Ores	• • • • • • •	16	• • • • • • •
Lead		16	
Petroleum products	273	138	254
Diesel oil	38	• • • • • •	100
Fuel oil, residual	33 202	138	108 146
Miscellaneous	4	3	3

		Fiscal year	
	1992	1991	1990
WEST COAST UNITED STATES TO EAST COAST			
CANADA—Continued Miscellaneous—Continued			
Container cargo	4	,	2
	$\frac{4}{287}$	181	280
Total		101	
WEST COAST UNITED STATES TO EAST COAST CENTRAL AMERICA:			
Grains	• • • • • • •	9	• • • • • • • • • • • • • • • • • • • •
Rice Petroleum products	38	9 240	
Diesel oil	8		
Fuel oil, residual	5		
Gasoline	25	239	• • • • • •
Liquefied gas	• • • • • • •	1	1
	• • • • • • •	1	$\frac{1}{1}$
Container cargo	20		
Total	38	<u>250</u>	
WEST COAST UNITED STATES TO EAST COAST SOUTH AMERICA:			
Canned and refrigerated foods	9	6	<u></u>
Refrigerated foods	9	6	
Fruit, excluding bananas	7	5	
Other and unclassified	2	1	• • • • • • •
Chemicals and petroleum chemicals	• • • • • • • • • • • • • • • • • • • •	12	• • • • • • •
Caustic soda	• • • • • •	10	• • • • • •
Chemicals, unclassified Lumber and products	17	2 10	5
Pulpwood	13	10	
Other and unclassified	4		
Machinery and equipment	1		4
Automobiles, trucks, accessories and parts	1		4
Minerals, miscellaneous	<u>150</u>	148	143
Borax	4	1	1
SaltSoda and sodium compounds	119	90	77
Sulfur	27	57	65
Other agricultural commodities	7		
Peas, dry	7		
Ores and metals	30	88	31
Ores	30	67	31
Copper	30	55	31
Other and unclassified	• • • • • • •	12 21	• • • • • • •
Copper		21	•••••
Petroleum products	68	75	136
Fuel oil, residual			127
Gasoline		70	
Liquefied gas	38	· · · · · · · · · · · · · · · · · · ·	
Petroleum coke	30 48	5 39	9 23
Paper and paper products	48	8	10
a aper and paper products	1	8	10

		Fiscal year	
	1992	1991	1990
WEST COAST UNITED STATES TO EAST COAST			
SOUTH AMERICA—Continued Miscellaneous—Continued			
Container cargo	45	20	10
All other and unclassified	2	30 1	12 1
Total	330	378	344
	====		
WEST COAST UNITED STATES TO CRISTOBAL, R.P.:			
Petroleum products	5	• • • • • •	• • • • • • •
Fuel oil, residual	5		
Miscellaneous	54	67	15
Container cargo	53	67	15
All other and unclassified	1	• • • • • •	*****
Total	59	67	15
WEST COAST UNITED STATES TO WEST INDIES:			
Canned and refrigerated foods	5	4	
Refrigerated foods	5	4	
Fish		4	
Grains		15	
Rice		15	
Petroleum products	578	79	373
Diesel oil	63		7
Fuel oil, residual	358	17	362
Gasoline	38	62	• • • • • •
Kerosene Lubricating oil	70 49	• • • • • • •	
Other and unclassified			4
Miscellaneous	55	42	8
Container cargo	53	42	7
All other and unclassified	2		1
Total	638	140	381
WEST COAST UNITED STATES TO EUROPE:			
Canned and refrigerated foods	179	210	207
Canned foods	5		
Fruit	5	•••••	•••••
Refrigerated foods	174	210	207
Fish	51	110	107
Fruit, excluding bananas	36	36	22
Other and unclassified	.87	64	78
Chemicals and petroleum chemicals	100	81	62
Caustic soda	48	18 28	35
Chemicals, unclassified	35 17	35	27
Coal and coke (excluding petroleum coke)	263	175	214
Coal	208	54	103
Coke	55	121	111
Grains	298	147	241
Rice	167	114	160
Wheat Other and unclassified	131	30 3	81
Lumber and products	506	501	629
Semises with products			

Table 11.—Important Commodity Shipments over Principal Trade Routes
Pacific to Atlantic—Continued

		Fiscal year	
	1992	1991	1990
WEST COAST UNITED STATES TO EUROPE— Continued			
Lumber and products—Continued			
Boards and planks	154	119	198
Plywood, veneers, composition board	54	43	67
Pulpwood	258 40	280 59	341 23
Other and unclassified  Machinery and equipment	2	6	
Automobiles, trucks, accessories and parts		3	
Construction machinery and equipment	2		
Other and unclassified		3	
Manufactures of iron and steel	• • • • • • •	9	• • • • • • • •
Plates, sheets and coils		8	• • • • • • •
Tubes, pipes and fittings	970	722	460
Minerals, miscellaneous	879	723	468
Borax	366 462	391 157	410 58
Soda and sodium compounds Sulfur	51	175	
Nitrates, phosphates and potash	11	30	21
Fishmeal		3	21
Nitrate of soda	11	23	
Phosphates		4	
Ores and metals	702	561	391
Ores	592	456	304
Copper	102	10	31
Iron	86	126	23 74
Lead	1	120	/4
Zinc	335	246	139
Other and unclassified	68	74	37
Metals	110	105	87
Copper		16	
Lead	26	32	22
ZincOther and unclassified	84	50 7	65
Other agricultural commodities	10	6	7
Beans, edible	<del></del>	$\frac{\frac{3}{1}}{1}$	$\frac{}{}$
Cotton, raw	2	3	6
Oilseeds	2	2	
Peas, dry	6		
Petroleum products	2,594	2,029	2,045
Diesel oil	111	120	• • • • • •
Fuel oil, residual	309 13	138	
Liquefied gas	25	16	12
Lubricating oil		1	6
Petroleum coke	2,120	1,874	2,027
Other and unclassified	16	1 440	1 242
Miscellaneous	1,389	1,440	1,343
Clay, fire and china	15	15	15 2
Flour, wheat	1		9
Oil, coconut	i		
Oil, fish	2		
Oil, vegetable	5	9	12

Table 11.—Important Commodity Shipments over Principal Trade Routes
Pacific to Atlantic—Continued

		Fiscal year	
WEST OF LOW WATER OF LINES TO THE OFF	1992	1991	1990
WEST COAST UNITED STATES TO EUROPE— Continued			
Miscellaneous—Continued			
Paper and paper products	34	13	8
Seeds, excluding oilseeds	1		
Tallow	6	5	
Container cargo	1,291	1,330	1,246
All other and unclassified	33	68	47
Total	6,933	5,918	5,628
WEST COAST UNITED STATES TO AFRICA:			
Canned and refrigerated foods	7		
Canned foods	7		
Milk	7		
Grains	1,326	1,760	957
Barley	• • • • • •		26
Rice	1,326	30 1,730	27 904
Lumber and products	27	39	97
Boards and planks	18	27	93
Pulpwood	9	12	4
Minerals, miscellaneous	227	108	182
BoraxSoda and sodium compounds	1	41	85
Sulfur	226	67	97
Nitrates, phosphates and potash			27
Ores and metals	· · · · · · · ·	• • • • • • •	49
Ores, miscellaneous			49
Other agricultural commodities	<u>56</u>	<del>37</del>	33
Petroleum products	45		
Kerosene	45		
Miscellaneous	63	14	36
Flour, wheat	52		
Container cargo	11	13	36
	1,749	1,958	1 201
Total	1,/49	1,936	1,381
WEST COAST UNITED STATES TO ASIA			
(MIDDLE-EAST):	•		,
Canned and refrigerated foods	3		<u> </u>
Refrigerated foods, miscellaneous	3	1	4
Chemicals, miscellaneous		•••••	$\frac{}{2}$
Petroleum chemicals, miscellaneous			2
Grains	50	• • • • • • •	• • • • • • •
Barley	50		• • • • • •
Minerals, miscellaneous	39	• • • • • • •	•••••
Sulfur Petroleum products	39 54		
Lubricating oil		******	2
Petroleum coke	54		

		Fiscal year	
WEST COAST INVESTIGATION ASIA	1992	1991	1990
WEST COAST UNITED STATES TO ASIA (MIDDLE-EAST)—Continued			
Miscellaneous	56	29	36
Container cargo	56	29	35
All other and unclassified	******	•••••	1
Total	<u>202</u>	30	43
WEST COAST CANADA TO EAST COAST UNITED STATES			
Chemicals and petroleum chemicals	<u> 263</u>	242	194
Caustic soda Chemicals, unclassified Petroleum chemicals, miscellaneous	10 200 53	242	187 7
Lumber and products	484	458	788
Boards and planks	469	453	785
Pulpwood	1	5	2
Other and unclassified	14		1
Petroleum and petroleum products	487	505	101 80
Crude oil	367 17	401	21
Gasoline	101	104	
Jet fuel	2		
Miscellaneous	5	5	
Paper and paper products	3	4	i
Container cargo	2		
Total	1,239	1,209	1,084
WEST COAST CANADA TO EAST COAST CENTRAL AMERICA:			
Grain	106	<u></u>	
Wheat	106		
Nitrates, phosphates and potash	16	14	<u></u>
Fertilizers, miscellaneous	16	14	
Petroleum products	32	28	•••••
Gasoline	32	28	•••••
Total	154	<u>42</u>	<del></del>
WEST COAST CANADA TO EAST COAST SOUTH AMERICA			
Chemicals and petroleum chemicals, miscellaneous Coal and coke (excluding petroleum coke)	• • • • • • •	16 56	
Coal	•••••	<u>56</u>	•••••
Grains	587	194	65
Barley	56	79	16
Oats	1	1	
Wheat	514	106	49
Other and unclassified Lumber and products	16 52	8 40	<u> 17</u>
Boards and planks	2	• • • • • •	• • • • • • • •
Pulpwood	49	40	17
Minerals, miscellaneous	211	292	261
Asbestos	1		• • • • • • •

		Fiscal year	
	1992	1991	1990
WEST COAST CANADA TO EAST COAST SOUTH AMERICA—Continued			
Minerals, miscellaneous—Continued			
Sulfur	210	292	261
Nitrates, phosphates and potash			35
Ammonium compounds	• • • • • •	• • • • • •	4
Potash Ores and metals	5	35	31 35
Ores		15	26
Copper		15	25
Other and unclassified			1
Metals	<u></u>		9
Copper Other agricultural commodities	24	20 21	9 16
Beans, edible	9	11	5
Peas, dry	15	10	11
Miscellaneous	72	78	52
Groceries, miscellaneous	13		
Paper and paper products	30 1	65	40
Container cargo	26	13	9
All other and unclassified	2	• • • • • • •	3
Total	951	732	481
WEST COAST CANADA TO WEST INDIES:			
Grains	38		
Wheat	38		
Lumber and products	62	38	$\frac{44}{42}$
Boards and planks  Plywood, veneers, composition board	58	38	2
Other and unclassified	4		
Minerals, miscellaneous	27	21	39
Sulfur	27 21	21 20	39 24
Nitrates, phosphates and potash  Ammonium compounds	12	4	15
Fertilizers, unclassified	19	16	9
Miscellaneous	5	2	2
Paper and paper products	5	2	2
Total	<u>153</u>	81	109
WEST COAST CANADA TO EUROPE:			
Canned and refrigerated foods	83	33	24
Refrigerated foods	83	33	24
FishOther and unclassified	17 66	18 15	6 18
Chemicals and petroleum chemicals		23	4
Chemicals, unclassified		13	4
Petroleum chemicals, miscellaneous		10	1.044
Coal and coke (excluding petroleum coke)	2,605	2,365	1,944
Coal	2,578 27	2,253 112	1,944
Grains	103	530	288
Barley	6	448	186
Wheat	27	52	73

Table 11.—Important Commodity Shipments over Principal Trade Routes
Pacific to Atlantic—Continued

		Fiscal year	
	1992	1991	1990
WEST COAST CANADA TO EUROPE—Continued Grains—Continued			
Other and unclassified	70	30	29
Lumber and products	2,696	3,042	<u>3,401</u>
Boards and planks	904	1,388	1,684
Plywood, veneers, composition board Pulpwood	100 1,498	79 1,475	117 1,440
Other and unclassified	194	1,473	160
Machinery and equipment, miscellaneous		3	2
Manufactures of iron and steel, miscellaneous		1	
Minerals, miscellaneous	179	<u> 377</u>	985
Asbestos	1		3
Borax  Soda and sodium compounds	7	4	10
Sulfur	171	373	972
Nitrates, phosphates and potash		34	37
Fishmeal		2	1
Potash	• • • • • • •	15	13
Fertilizer, unclassified	107	17	23
Ores and metals	<u>107</u>	132	91
Ores	88	89	$\frac{70}{70}$
Copper	82	57 11	/0
Zinc	4	21	
Other and unclassified	2		
Metals	19	43	21
Aluminum	2	4	2
Copper	10	10	• • • • • •
lron Lead	1	14	15
Zinc	3	15	4
Other agricultural commodities	53	30	8
Beans, edible	3		4
Oilseeds	39	26	4
Peas, dry	11 90	4 224	159
Petroleum products	90	224	159
Miscellaneous	676	672	594
Groceries, miscellaneous		1	
Liquors and wines	4		
Oil, vegetable	2		2
Paper and paper products	377	335	311
Seeds, excluding oilseeds	16 21	26	3 28
Container cargo	231	278	235
All other and unclassified	25	32	15
Total	6,592	7,466	7,537
WEST COAST CANADA TO A PRICE			
WEST COAST CANADA TO AFRICA: Coal and coke (excluding petroleum coke)	91	122	
Coal	91	122	•••••
Grains	57	264	156
Barley		49	
Wheat	47	213	156

Table 11.—Important Commodity Shipments over Principal Trade Routes
Pacific to Atlantic—Continued

		Fiscal year	
WEST COAST CANADA TO AFRICA—Continued	1992	1991	1990
Grains—Continued			
Other and unclassified	10	2	
Lumber and productsBoards and planks		303	267
Plywood, veneers, composition board	11	250 18	267
Pulpwood	5	19	
Other and unclassified	1,667	16 1,680	1.016
Asbestos	1,007	1,000	1,016
Sulfur	1,666	1,680	1,016
Other agricultural commodities, miscellaneous Miscellaneous	33	• • • • • • •	2
All other and unclassified	33		•••••
Total	1,864	2,369	1,442
WEST COAST CANADA TO ASIA (MIDDLE EAST):			
Lumber and products		6	6
Boards and planks Pulpwood	• • • • • • •		2
Other and unclassified		4 2	4
Minerals, miscellaneous	149	261	259
Sulfur Miscellaneous	149	261	259
Paper and paper products		1	<del></del>
All other and unclassified	•••••	1	
Total	149	<u>268</u>	265
WEST COAST CENTRAL AMERICA TO EAST COAST			
UNITED STATES: Canned and refrigerated foods	28	14	2
Refrigerated foods	28	14	$\frac{2}{2}$
Bananas	28	14	1
Other and unclassified	200	101	150
Chemicals, unclassified	288 268	$\frac{181}{174}$	<u>150</u>
Petroleum chemicals, miscellaneous	20	`` <i>†</i>	
Machinery and equipment	1	•••••	5
Construction machinery and equipment	i		5
Manufactures of iron and steel	61	63	<u>97</u>
Angles, shapes and sections	7 17	63	61
Other and unclassified	37		36
Minerals, miscellaneous	536	556	537
Sulfur	505 31	556	537
Nitrates, phosphates and potash	2	8	10
Fishmeal Ores and metals	2 183	8 177	10 143
Ores	168	177	143
Iron			106
Other and unclassified	168	177	37

Table 11.—Important Commodity Shipments over Principal Trade Routes
Pacific to Atlantic—Continued

	F	iscal year	
	1992	1991	1990
WEST COAST CENTRAL AMERICA TO EAST COAST UNITED STATES—Continued			
Ores and metals—Continued			
Metals	15		
Iron	15		
Other agricultural commodities	1,021	824	626
Coffee	26	261	27
Molasses	329	251	172 7
Sugar	666	565	420
Petroleum and petroleum products	197	11	3
Asphalt	6		
Crude oil	52		
Fuel oil, residual	96	• • • • • • • •	
Gasoline	4		3
Liquefied gas	39	10 1	• • • • • • • • • • • • • • • • • • • •
Miscellaneous	7	5	3
Oil fish			3
Container cargo	7	4	3
All other and unclassified		i	
Total	2,323	1,839	1,575
	2,525		= 1,575
WEST COAST CENTRAL AMERICA TO EAST COAST			
CENTRAL AMERICA:			
Canned and refrigerated foods	4	<u>.</u>	
Milk, canned	4		
Chemicals and petroleum chemicals	56		23
Chemicals, unclassified	56		23
Grains	15	59	67
Corn	15	30	
Sorghum			9
Wheat		29	58
Lumber and products	<u>_</u>	• • • • • • • • • • • • • • • • • • • •	•••••
Boards and planks	1	• • • • • • • •	
Manufactures of iron and steel		6	1
Plates, sheets and coils	•••••	6	
Minerals, miscellaneous	• • • • • • •	0	27
Salt		*******	27
Nitrates, phosphates and potash	203	342	268
Ammonium compounds		8	
Phosphates	203	334	268
Ores and metals	4		24
Ores, miscellaneous	4		
Metals	<u></u>	<u></u>	24
Copper			24
Other agricultural commodities	36	41	15
Oilseeds	1	1	1
Sugar	35	40	14
Petroleum and petroleum products	92	39	93
Crude oil	26	••••••	
Diesel oil	38	20	2

[outunes of folia total			
		Fiscal year	
	1992	1991	1990
WEST COAST CENTRAL AMERICA TO EAST COAST CENTRAL AMERICA—Continued Petroleum and petroleum products—Continued			
Fuel oil, residual			53
Gasoline	28	19	19
Other and unclassified			19
Miscellaneous	8	5	17
Oil, fish		1	
Oil, vegetable	7	4	17
All other and unclassified	l		
Total	419	492	533
WEST COAST CENTRAL AMERICA TO EAST COAST			
SOUTH AMERICA:	71	(7	5.0
Canned and refrigerated foods	<u>71</u>	67	56
Refrigerated foods	71	67	56
Bananas	4		
Fish	67	67	56
Chemicals and petroleum chemicals, miscellaneous			7
Grains	1	• • • • • • • • • • • • • • • • • • • •	• • • • • • •
Oats	1		
Lumber and products	2	• • • • • • •	3
Boards and planks	2	• • • • • •	3
Minerals, miscellaneous	1	•••••	• • • • • • •
Sulfur Nitrates, phosphates and potash	7	13	5
		12	
Ammonium compounds	,	12	,
Ores and Metals	97	43	30
Ores	95	43	30
Copper	10		12
Other and unclassified	85	43	18
Metals	2		
Scrap	2		
Other agricultural commodities	112	18	37
Beans, edible	7		
Peas, dry	4		
Sugar	101	18	37
Miscellaneous	4	4	3
Oil, vegetable	2		
Container cargo	2	3	1
All other and unclassified	• • • • • •	1	2
Total	295	145	141
WEST COAST CENTRAL AMERICA TO CRISTOBAL, R.P.:			
Lumber and products, miscellaneous	2		
Ores and metals	31	10	
Ores, miscellaneous	31	10	
Petroleum products	15		13
Diesel oil	10		
Fuel oil, residual	5		13
Miscellaneous	2	1	8

		Fiscal year	
WINDS OF AN	1992	1991	1990
WEST COAST CENTRAL AMERICA TO CRISTOBAL, R.P.—Continued			
Miscellaneous—Continued			
Container cargo	2	1	8
Total	50	11	21
WITH GO AST ORNER AN AMERICA TO WITH THE			
WEST COAST CENTRAL AMERICA TO WEST INDIES: Canned and refrigerated foods	29	52	94
Refrigerated foods	29	52	94
Bananas		7	
Fish	29	45	93
Other and unclassified	• • • • • • •		12
Chemicals and petroleum chemicals, miscellaneous Grains	4		13 16
Rice	4		
Wheat			16
Lumber and products	9	15	15
Boards and planks Other and unclassified	8 1	15	15
Machinery and equipment, miscellaneous			i
Nitrates, phosphates and potash	2	3	6
Fishmeal	2	3	2
Nitrate of soda Ores and metals	179	45	4
Ores	179	45	
Iron	152	20	
Other and unclassified	27	25	
Other agricultural commodities	112	134	59
Cotton, raw	63	82	31
Sugar, raw	48	52	28
Petroleum products	429	6	24
Diesel oil	166 219	6	24
Jet fuel	44		24
Miscellaneous	12	5	19
Oil, fish	3		
Oil, vegetable Tallow	1 4	3	• • • • • • •
Container cargo	2	2	17
All other and unclassified	2		2
Total	<del>776</del>	<u>260</u>	<u>247</u>
WEST COAST CENTRAL AMERICA TO EUROPE:			
Canned and refrigerated foods	517	573	524
Canned foods		2	1
Fish		2	
Other and unclassified	617		1
Refrigerated foods  Bananas	<u>517</u>	571	<u>523</u> 450
Dairy products	483	330	430
Fish	25	39	66
Fruit, excluding bananas	3	1	4

		Fiscal year	
WEST COAST CENTRAL AMERICA TO EUROPE—	1992	1991	1990
Continued			
Canned and refrigerated foods—Continued Refrigerated foods—Continued			
Other and unclassified Chemicals and petroleum chemicals	1	<u></u>	3
Chemicals, unclassified	1	29	2
Coke		29	
Grains, miscellaneous Lumber and products	3	6	18
Boards and planks	3	3	4
Pulpwood	174	3 28	14 107
Plates, sheets and coils	136	28	107
Other and unclassified	34		
Ores and metals	33	35	23
Ores	• • • • • • •	13	10
Copper	• • • • • • •	7	3 2
Zinc		6	5
Metals	33	22	13
Copper	33	20	12
Other and unclassified		2	
Other agricultural commodities	114	125	264
Beans, edible	6 65	79	119
Cotton, raw	3	5	119
Molasses	4	19	79
Oilseeds	2 10	1 21	1
Sugar	24		53
Miscellaneous	44	52	57
Clay, fire and china			3 5
Groceries, miscellaneous	11		6
Oil, vegetable	4		
Seeds, excluding oilseeds	1 24	5 46	2 37
All other and unclassified	4		4
Total	886	849	995
WEST COAST CENTRAL AMERICA TO AFRICA:		1	6
Canned and refrigerated foods	******	<del></del>	6
Fish	******	1	6
Grains	10	14	26
Corn	10	14	
Wheat	8	8	26 6
Zamoti and products			

		Fiscal year	
	1992	1991	1990
WEST COAST CENTRAL AMERICA TO AFRICA—			
Continued Lumber and products—Continued			
Boards and planks	8	8	6
Other agricultural commodities	68	109	84
Cotton, raw	11		
Sugar	57	109	84
Miscellaneous	• • • • • • •	3	2
Seeds, excluding oilseeds	• • • • • • •	3	
Container cargo All other and unclassified			1
Total	86	135	124
10001		=====	
WEST COAST CENTRAL AMERICA TO ASIA			
(MIDDLE EAST):			
Canned and refrigerated foods		2	•••••
Refrigerated foods	1	2	•••••
Bananas Fish	1	1	• • • • • • •
Other agricultural commodities		3	
Oilseeds		3	
Petroleum products		24	
Jet fuel		24	
Miscellaneous	• • • • • • • •	1	• • • • • • • • • • • • • • • • • • • •
All other and unclassified		1	<u></u>
Total	1	30	<u></u>
WEST COAST COUTH AMERICA TO FAST COAST			
WEST COAST SOUTH AMERICA TO EAST COAST UNITED STATES:			
Canned and refrigerated foods	876	1,051	1,085
Canned foods	17	8	7
Fish		2	2
Fruit	14	5	3
Vegetables, canned	2	1	2
Canned foods, miscellaneous	859	1,043	1,078
Bananas	392	579	580
Fish	14	22	23
Fruit, excluding bananas	371	383	419
Other and unclassified	82	59 51	56 96
•	<u>206</u>	<u> 51</u>	94
Chemicals, miscellaneous  Petroleum chemicals, miscellaneous	18	4/	2
Grains, miscellaneous			$\bar{1}$
Lumber and products	73	80	59
Boards and planks	16	34	35
Plywood, veneers, composition board Pulpwood	10 42	8 34	12 5
Other and unclassified	5	4	7
Machinery and equipment			<u>i</u>
Agricultural machinery and implements		3	
Automobiles, trucks, accessories and parts	• • • • • • •	2 2	• • • • • • • •
Construction machinery and equipment	• • • • • • •	2	1

Table 11.—Important Commodity Shipments over Principal Trade Routes
Pacific to Atlantic—Continued

[ Thousands of folig tons]			
		Fiscal year	
	1992	1991	1990
WEST COAST SOUTH AMERICA TO EAST COAST UNITED STATES—Continued	. 1772	1991	1990 1
Manufactures of iron and steel		1	20
Nails, tacks and spikes	•••••	1	28
ludes, pipes and littings	• • • • • •		1
wire, bars and rods		1	3 2
Other and unclassified		• • • • • • •	22
Minerals, miscellaneous	302	588	810
Salt	292	582	810
Soda and sodium compounds	10	6	810
Nitrates, phosphates and potash	195	185	286
Fishmeal	16	27	74
Nitrate of soda	177	132	190
Potash	2	10	6
Fertilizers, miscellaneous		16	16
Ores and metals	426	468	428
Ores	274	343	247
Copper	15	3	10
Iron	178	275	173
Lead	6	2,5	175
Zinc	48	18	9
Other and unclassified	27	47	55
Metals	152	125	181
Aluminum		4	
Copper	95	98	158
Iron	22	• • • • • • •	
Lead	8		2
ZincOther and unclassified	26	23	21
Other agricultural commodities	261	270	
Reans edible	261	370	617
Beans, edible			1
Coffee	12 94	31 98	33
Cotton, raw	3	90	106 2
Molasses	45	21	55
Skin and hides			18
Sugar	107	220	401
Wool, raw			1
Petroleum and petroleum products	2,003	2,750	4,593
Crude oil	929	1,667	2,213
Diesel oil	17		28
Fuel oil, residual	1,039	1,082	2,250
Gasoline Other and unclassified	18	1	54
Miscellaneous	026		48
Bricks and tile	836	<u>692</u>	<u>701</u>
Bricks and tile Fibers, plant	• • • • • • •	• • • • • • • •	4
Groceries, miscellaneous	1	1	
Liquors and wines	10	1 3	5 4
Marble and stone	10	3	1
Oil, fish	4	4	5
Oil, vegetable	i	9	18
Paper and paper products	i	12	4
Slag, clinkers and dross			28
Textiles	2	2	5

[Thousands of long tons]			
		Fiscal year	
	1992	1991	1990
WEST COAST SOUTH AMERICA TO EAST COAST UNITED STATES—Continued Miscellaneous—Continued			
Container cargo All other and unclassified	771 45	608 52	598 29
Total	5,178	6,243	8,705
WEST COAST SOUTH AMERICA TO EAST COAST CANADA:			
Lumber and products	9	• • • • • • • • • • • • • • • • • • • •	• • • • • • •
Pulpwood Nitrates, phosphates and potash	9 11	<u> </u>	
Nitrate of soda	11	6	
Ores and metals	4	5	21
Ores	4	5	15
Copper	4	5	15
Lead	<u></u>	<u></u>	6
Copper	53		6 27
Petroleum and petroleum products	53	•••••	
Crude oil	33		27
Miscellaneous	4	5	4
Liquors and wines	3	3	3
Container cargo	i	1 1	·····i
Total	81	16	52
WEST COAST SOUTH AMERICA TO EAST COAST CENTRAL AMERICA: Canned and refrigerated foods	3		
Canned foods	1		
Fruit	1		
Refrigerated foods, miscellaneous	2		
Chemicals and petroleum chemicals	•••••	• • • • • •	
Chemicals, unclassified	5		1 1
Boards and planks	3		
Plywood, veneers, composition board	1	• • • • • •	1
Other and unclassified	1	2	
Plates, sheets and coils	·····	2	
Nitrates, phosphates and potash	15		3
Fishmeal	3	• • • • • • •	
Nitrate of soda	12	• • • • • • •	2
Fertilizers, miscellaneous	96	48	1 30
Ores	70	33	28
Copper	3	2	
Lead	50	25	13
Tin		1	2
Zinc		5	13
Other and unclassified	17	• • • • • • • • • • • • • • • • • • • •	

		Fiscal year	
WD0D 00 100 00 VDV	1992	1991	1990
WEST COAST SOUTH AMERICA TO EAST COAST CENTRAL AMERICA—Continued Ores and metals—Continued			
Metals	26	15	2
Copper	19	15	2
Lead	3	10	
Zinc	4	5	
Other agricultural commodities			5
Coffee			1
Sugar Petroleum and petroleum products	1,112	850	903
	1.089	825	842
Crude oilFuel oil, residual	1,009	25	56
Gasoline	23		5
Miscellaneous	56	61	65
Flour, wheat	1		
Oil, fish	23	22	31
Oil, vegetable	2	6	9
Paper and paper products	27	26	1 21
All other and unclassified	3	7	3
Total	1,287	961	1,008
WEST COAST SOUTH AMERICA TO EAST COAST			
SOUTH AMERICA: Canned and refrigerated foods	35	12	17
	33	<del></del>	17
Canned foods			•••••
Fruit	2	1	
Refrigerated foods	32	11	17
Bananas	4	2	8
Fish	9	2	5
Fruit, excluding bananas	17	7	4
Other and unclassified Chemicals and petroleum chemicals	2 5	1	6
Chemicals, unclassified		1	$\frac{}{}$
Grains	3		7
Soybeans	1		7
Other and unclassified	2		
Lumber and products	53	24	36
Boards and planks	14	5	5
Plywood, veneers, composition board	7 29	2 17	31
Pulpwood Other and unclassified	3	17	31
Machinery and equipment	i		
Construction machinery and equipment	1		
Manufactures of iron and steel	2	1	1
Angles, shapes and sections	1		
Wires, bars and rods	1	• • • • • • • • • • • • • • • • • • • •	;
Other and unclassified		1	1
_ ^	• • • • • • •	• • • • • • • • • • • • • • • • • • • •	$\frac{2}{2}$
Borax	3		5
potasis in potasis in potasis in the			

		Fiscal year	(2.1
	1992	1991	1990
WEST COAST SOUTH AMERICA TO EAST COAST SOUTH AMERICA—Continued			
Nitrates, phosphates and potash—Continued			
Ammonium compounds		• • • • • • •	2
Fishmeal	1 2	2	3
Ores and metals	96	98	56
Ores	43	64	30
Copper	11	13	
Lead	2		
Zinc		11	2
Other and unclassified	30 53	40 34	28 26
Metals	1		
Aluminum	26	14	6
Lead	4	6	ő
Tin, including tinplate	1		
Zinc	19	13	13
Other and unclassified	2 211	1 83	1 27
Other agricultural commodities	6	4	3
Beans, edible	32		
Molasses	30		
Sugar	143	79	24
Petroleum and petroleum products	360	25	10
Crude oil	357	17	10
Gasoline	3	8	10
Miscellaneous	91	81	59
Cement		3	1
Liquors and wines	2	2	
Marble and stone			]
Oil, fish	11	3 31	24
Oil, vegetable  Paper and paper products	8	7	7
Textiles	Ĭ	1	
Container cargo	51	26	15
All other and unclassified	18	8	10
Total	860	328	226
WEST COAST SOUTH AMERICA TO CRISTOBAL, R.P.:			
Canned and refrigerated foods, miscellaneous		1	;
Ores and metals, miscellaneous	• • • • • •	50	1
Petroleum and petroleum products	•••••	59	•••••
Crude oil		8	
Gasoline		ĭ	
Miscellaneous	12	9	6
Container cargo	10	6	5
All other and unclassified	2	3	
Total	12	69	7
WEST COAST SOUTH AMERICA TO WEST INDIES:			
Canned and refrigerated foods	27	20	42
Refrigerated foods	27	20	42

Table 11.—Important Commodity Shipments over Principal Trade Routes
Pacific to Atlantic—Continued

		Fiscal year	
	1992	1991	1990
WEST COAST SOUTH AMERICA TO WEST INDIES— Continued			
Canned and refrigerated foods—Continued Refrigerated foods—Continued			
Bananas	3		
FishFruit, excluding bananas	15 6	13 6	35 5
Other and unclassified	3	i	2
Chemicals and petroleum chemicals, miscellaneous  Lumber and products	24	38	3 75
Boards and planks	15	35	46
Plywood, veneers, composition board	2	3	3
Pulpwood Other and unclassified	7	• • • • • •	3 23
Nitrates, phosphates and potash		3	28
Fishmeal			28
Fertilizers, unclassified		3	
Ores and metals	110	• • • • • • •	• • • • • • •
Ores	110	• • • • • •	• • • • • • •
Iron Manganese	76 34	• • • • • • •	• • • • • • •
Other agricultural commodities	19	21	14
Beans, edible	16	11	3
Molasses		6	5
Sugar  Petroleum and petroleum products	3 1,433	2,693	6 3,797
Crude oil	792	1,919	3,316
Diesel oil	20	45	
Fuel oil, residual	561	682	453
Gasoline	11	45 2	28
Other and unclassified	49		
Miscellaneous	16	14	27
Groceries, miscellaneous	1	1	1
Oil, vegetable  Paper and paper products		1 2	2
Tallow		1	
Container cargo	10	9	15
All other and unclassified  Total	1,629	2,789	$\frac{9}{3,986}$
10ta1	1,029	2,709	3,760
WEST COAST SOUTH AMERICA TO EUROPE:			
Canned and refrigerated foods	1,960	1,958	1,541
Canned foods	8	35	22
Fish	4	16	16
Fruit	1 3	6 11	1 5
Other and unclassified		2	
Refrigerated foods	1,952	1,923	1,519
Bananas	1,208	954	553
Fish Fruit, excluding bananas	56 577	342 496	483 347
Meat	1		
Other and unclassified	110	131	136

Table 11.—Important Commodity Shipments over Principal Trade Routes
Pacific to Atlantic—Continued

		Fiscal year	
	1992	1991	1990
WEST COAST SOUTH AMERICA TO EUROPE— Continued			
Chemicals and petroleum chemicals	6	14	22
Chemicals, unclassified	6	14	7
Petroleum chemicals, miscellaneous			15
Coal and coke (excluding petroleum coke)	18	•••••	• • • • • • • • • • • • • • • • • • • •
Coke Grains	18 1	<u>1</u>	<u> </u>
Corn	1	1	1
Lumber and products	495	<u>620</u>	557
Boards and planks	83	263	238
Plywood, veneers, composition board	66 311	21 143	14 190
Pulpwood Other and unclassified	35	193	115
Machinery and equipment, miscellaneous	ĺ	ĺ	1
Manufactures of iron and steel	1	• • • • • • • • • • • • • • • • • • • •	4
Plates, sheets and coils			4
Wire, bars and rods	1 29		• • • • • • •
Minerals, miscellaneous			•••••
Salt	29		
Soda and sodium compounds		4	
Nitrates, phosphates and potash	<u>789</u>	<u>870</u>	1,303
Fishmeal	602	731	1,128
Nitrate of soda	175	132	160 1
Fotasii	12	1	14
Ores and metals	1,942	1,875	1,845
Ores	1,416	1,008	1,014
Copper	607	311	263
Iron			107
Lead	22	55 2	59 10
Zinc	721	574	545
Other and unclassified	66	66	30
Metals	526	867	831
Copper	477	739	662
Iron Lead	4 15	9 32	12 30
Scrap			27
Tin, including tinplate		4	1
Zinc	19	72	96
Other and unclassified Other agricultural commodities	11 71	11 151	3 184
Beans, edible	1	1	1
Cocoa and cacao beans	3	3	2
Cotton, raw	1		
Coffee	62	129 15	156 11
Cotton, raw	2	13	10
Skins and hides		2	2
Wool, raw	1	1	2
Petroleum products	•••••	31	3
Diesel oil		2	3

Table 11.—Important Commodity Shipments over Principal Trade Routes
Pacific to Atlantic—Continued

		Fiscal year	
WEST COAST SOUTH AMERICA TO EUROPE—	1992	1991	1990
Continued Continued			
Petroleum products—Continued			
Fuel oil, residual			
Gasoline		2 22	• • • • • •
Other and unclassified		5	• • • • • •
Miscellaneous	843		819
Bricks and tile	6		1
Carbon black. Fibers, plant	• • • • • •	3	
riour, wheat	•••••	• • • • • • •	8
dioceries, miscellaneous	1 9		• • • • • • • • • • • • • • • • • • • •
Liquois and wines	3	33 1	1 1
Marble and stone			1
Oil, fish	40	90	113
Paper and paper products Textiles.	30	91	33
Container cargo	1	9	5
All other and unclassified	642 111	531	599
Total	6,156	66	57
	0,130	$\frac{6,350}{}$	6,280
WEST COAST SOUTH AMERICA TO AFRICA:			
Canned and refrigerated foods	17	20	22
Refrigerated foods	17	20	22
Bananas	3	6	1
Fish. Fruit, excluding bananas			9
Lumber and products.	14	14	12
Boards and planks	46	48	• • • • • • •
Other and inclassified	36 10	43 5	• • • • • •
ritiates, phosphates and notach		3	4
Ores and metals	57	47	51
Ores	47	47	45
Lead	6	9	
Zinc	41	38	45
Metals	10	• • • • • • •	6
Other agricultural commodition	10		6
Other agricultural commodities	• • • • • • •	2	10
Coffee		2	10
Jet fuel	6	<u></u> .	• • • • • •
Miscellaneous	6	• • • • • • • • •	• • • • • • •
All other and unclassified	2	<del></del> .	1
Total	2		1
	128	118	88
WEST COAST SOUTH AMERICA TO ASIA			
(MIDDLE EAST):			
Canned and refrigerated foods	21	23	27
Refrigerated foods	21	23	27
Bananas	16	23	24
Fish. Fruit, excluding bananas.	5		
Nitrates, phosphates and potash			3
Fishmeal	32	<u>21</u> -	10
	32	21	10

		Fiscal year	
	1992	1991	1990
WEST COAST SOUTH AMERICA TO ASIA—			
(MIDDLE EAST)—Continued Miscellaneous			8
Paper and paper products		•••••	4
All other and unclassified			4
Total	53	43	45
			====
HAWAII TO EAST COAST UNITED STATES: Other agricultural commodities	29	93	200
Sugar	29	93	209
Petroleum products, miscellaneous	34		
Total	63	93	209
	<del></del>	<del></del>	
OCEANIA TO EAST COAST UNITED STATES:	400	40.0	461
Canned and refrigerated foods	429	486	451
Canned foods, miscellaneous	429	1 485	451
Fish	1	<del></del>	
Fruit, excluding bananas	41	41	47
Meat	93	110	39
Other and unclassified	294	334 83	365 20
Coal and coke (excluding petroleum coke)	170	170	170
Coal			3
Coke	170	170	167
Manufactures of iron and steel	164	140	62
Plates, sheets and coils	69	87	38
Wire, bars and rods Other and unclassified	54 41	53	24
Minerals, miscellaneous	3	·····i	
Soda and sodium compounds	3	1	
Ores and metals	731	1,657	2,251
Ores	715	1,647	2,227
Alumina/bauxite	285	1,237	1,639
Chrome	57	67	103
Zinc	10		103
Other and unclassified	363	343	483
Metals	16	10	24
Iron		8	
Lead	8	• • • • • •	14
Other and unclassified	8	2	3
Other agricultural commodities	261	378	418
Cocoa and cacao beans	:	5	3
Molasses	131 130	234 138	266 149
Wool, raw	130	130	
Petroleum products	173	116	160
Gasoline	22	116	16
Liquefied gas	64	• • • • • • •	128 16
Lubricating oil Petroleum coke	87		10
Miscellaneous	376	284	312

		Fiscal year	
	1992	1991	1990
OCEANIA TO EAST COAST UNITED STATES— Continued			
Miscellaneous—Continued			
Clay, fire and china			56
Oil, vegetable	4		• • • • • •
Slag, clinkers and dross	364	2 276	244
All other and unclassified	8	6	12
Total	2,307	3,315	3,844
OCEANIA TO EAST COAST CANADA:			
Canned and refrigerated foods	20	47	54
Refrigerated foods	20	47	54
Meat		1	
Other and unclassified	20	46 27	54
Sulfur		<del></del>	•••••
Ores and metals	134	59	155
Ores	134	59	154
Alumina/bauxite	107	52	69
Chrome		• • • • • •	3
Copper	9	• • • • • •	65
Other and unclassified	18	7	17
Other agricultural commodities	246	307	320
Sugar	246	307	320
Miscellaneous	23	42	45
Container cargo	<del>23</del> 423	42	574
Total	<del>423</del>	401	= 3/4
OCEANIA TO EAST COAST CENTRAL AMERICA:	26	17	
Canned and refrigerated foods	36	17	$\frac{-68}{63}$
Canned foods	<u>13</u>	13	63
Milk Canned food, miscellaneous	4	13	03
Refrigerated foods	23	4	5
Dairy products	23	3	5
Fruit, excluding bananas	• • • • • • •	1	• • • • • • •
Manufactures of iron and steel, miscellaneous  Ores and metals	22	113	221
Lead	5		
Manganese ore		63	131
Ores, miscellaneous	17	50	90 17
Other agricultural commodities Oilseeds	16	•••••	17
Petroleum products			1
Lubricating oil			1
Miscellaneous		1	4
Container cargo			3
All other and unclassified	74	122	1
Total		<u>132</u>	311
OCEANIA TO EAST COAST SOUTH AMERICA:		**	13
Canned and refrigerated foods	32	28	13

Table 11.—Important Commodity Shipments over Principal Trade Routes
Pacific to Atlantic—Continued

		Fiscal year	
	1992	1991	1990
OCEANIA TO EAST COAST SOUTH AMERICA— Continued			
Canned and refrigerated foods—Continued			
Canned foods	22	25	7
Milk		25	<del></del>
Refrigerated foods	10	3	6
Dairy products	10	3	6
Grains	5	19	33
Barley		19	33
Oats Ores and metals	5	53	815
Ores	•••••	53	815
Alumina/bauxite	•••••	53	813
Other and unclassified			2
Other agricultural commodities			53
Sugar			53
Miscellaneous	• • • • • • • • • • • • • • • • • • • •	1	<u></u>
Container cargo	•••••	<u> </u>	• • • • • • •
Total	<u>37</u>	100	913
OCEANIA TO WEST INDIES:			
Canned and refrigerated foods	94	77	36
Canned foods	24	9	7
Milk	20	9	6
Other and unclassified	4		1
Dairy products	$\frac{70}{14}$	<u>68</u> 21	
Fish	51	28	12
Other and unclassified	5	19	16
Other agricultural commodities	16		• • • • • • •
Molasses	16		• • • • • •
Petroleum products, miscellaneous	35 12	13	10
Container cargo	12	13	10
Total	156	89	47
	====	===	===
OCEANIA TO EUROPE:	21.4	245	214
Canned and refrigerated foods	314	347	316
Canned foods	•••••	$\frac{6}{3}$	• • • • • • •
Fruit		3	• • • • • •
Refrigerated foods	314	341	316
Bananas			3
Dairy products		20	
FishFruit, excluding bananas	4 267	296	290
Meat	7	290	290
Other and unclassified	36	23	20
Chemicals and petroleum chemicals, miscellaneous	• • • • • • •	93	61
Coal and coke (excluding petroleum coke)	•••••	•••••	38
Coal			38 32
Barley		•••••	32
y · · · · · · · · · · · · · · · · ·			32

		Fiscal year	
OCEANIA TO EUROPE—Continued	1992	1991	1990
Lumber and products	20		
Boards and planks	30	6	
1 ly wood, velleers, composition board		2 2	
I UIDWOOD	30	2	2
Machine V and Edinament miscellaneous		1	4
Ores and metals	27	50	57
Ores	15	21	53
Lead			27
Zinc		8	5
Other and unclassified	15	13	21
Metals	12	29	4
Copper	12	17	4
Lead Other and unclassified	• • • • • • •	10	
Other agricultural commodities		2	
Cocoa and cacao beans	223	184	250
Coffee	• • • • • •		1
Copia and coconuts	• • • • • • •	• • • • • • •	1
Williasses	29	6	. 7
Sugai	194	170	85
wool, raw	174	178	153
retroleum products		· · · · · · i	3
Asphalt		<del></del>	•••••
Miscenaneous	239	142	177
Clay, lire and china			
Groceries, miscenaneous	14	10	6
On, vegetable	i		
aper and paper products	3	6	5
Tallow Container cargo		2	6
All other and unclassified	219	124	160
Total	2	• • • • • •	• • • • • • •
OCT AND THE STATE OF THE STATE	833	824	940
OCEANIA TO AFRICA:			
Canned and refrigerated foods	23	24	
Canned foods	4	20	•••••
Milk	4	20	•••••
Refrigerated 100ds	19	4	• • • • • •
Dairy products	18		• • • • • • •
ruit, excluding bananas	10	1	• • • • • •
Medi	i	i -	• • • • • • •
Total	23	24	• • • • • •
	=======================================		<del></del>
SIA TO EAST COAST UNITED STATES:			
Canned and refrigerated foods	116	99	123
Refrigerated foods	116	99	123
Fish			
Other and unclassified	115	99	123
chemicals and petroleum chemicals	265	214	147
Chemicals, unclassified	236	192	118
T CIT O I CITICINICAIS MISCELLA PAGNO	29	22	29
Coal and coke (excluding petroleum coke)	1,292	805	580
Coal	51	8 -	

Table 11.—Important Commodity Shipments over Principal Trade Routes
Pacific to Atlantic—Continued

		Fiscal year	
	1992	1991	1990
ASIA TO EAST COAST UNITED STATES—Continued			
Coal and coke (excluding petroleum coke)—Continued			
Coke	1,241	797	580
Grains	33		
Rice	33		
Lumber and products	583	500	575
Boards and planks	18	13	32
Plywood, veneers, composition board Other and unclassified	559 6	487	524 19
Machinery and equipment	1,177	1,305	1,378
Agricultural machinery and implements	1	3	9
Automobiles, trucks, accessories and parts	1,135	1,226	1,252
Construction machinery and equipment	22	32	86
Electrical machinery and apparatus	3	15	2
Other and unclassified	16 2,275	29 2,392	29 2,522
Angles, shapes and sections	75	94	63
Nails, tacks and spikes	34	25	48
Plates, sheets and coils	1,101	1,006	1,212
Tubes, pipes and fittings	248	271	285
Wire, bars and rods	160	133	121
Other and unclassified	657 1	863	793
	1		••••
Soda and sodium compounds  Nitrates, phosphates and potash	25	1	• • • • • • •
Phosphates	25	••••	••••
Ores and metals	1.219	1,639	1,650
Ores	1,195	1,612	1,621
Alumina/bauxite	306	275	454
Chrome	22	12	28
Copper	98		
Manganese	35	35	12
Other and unclassified  Metals	734 24	1,290 27	1,127 29
		4	11
Aluminum	3	10	8
Tin, including tinplate	3	2	3
Other and unclassified	16	11	7
Other agricultural commodities	<u> 170</u>	<u>289</u>	247
Beans, edible			ļ
Cocoa and cacao beans	23	5	1
Oilseeds	1	• • • • • • •	1
Rubber, raw	44	34	46
Sugar	102	250	198
Petroleum products	595	244	<u>161</u>
Asphalt	4		
Fuel oil, residual	478 43	53 19	55
Gasoline	28	6	33
Lubricating oil	9	16	22
Petroleum coke	29	120	84
Other and unclassified	5 107	30	6 122
Miscellaneous	5,107	5,058	5,132

Table 11.—Important Commodity Shipments over Principal Trade Routes
Pacific to Atlantic—Continued

		Fiscal year	
ACIA TO FACT COACT WWWTTD CTATE	1992	1991	1990
ASIA TO EAST COAST UNITED STATES—Continued Miscellaneous—Continued			
Bricks and tile	2	2	2
Clay, fire and china	2	2	3
Flour, wheat	6		
Glass and glassware		2	
Oil, coconut	16	44	60
Oil, fish Oil, vegetable	6 72	47	92
Rubber, manufactured		4/	6
Slag, clinkers and dross	12	3	
Wax, paraffin	5	3	2
Container cargo	4,828 160	4,831	4,871
Total	12,858	12,546	<u>98</u> 12,515
10141	12,030	12,340	12,313
ASIA TO EAST COAST CANADA:			
Canned and refrigerated foods	3	4	4
Refrigerated foods	3	4	4
Fish	1	1	
Other and unclassified	2	3	4
Coal and coke (excluding petroleum coke)		9	1
Coal	•••••	9	• • • • • • • • • • • • • • • • • • • •
Machinery and equipment		12	5
Construction machinery and equipment		8	3
Electrical machinery and apparatus		1	1
Other and unclassified	12	3	1
Angles, shapes and sections	13	11	••••
Plates, sheets and coils	7	· · · · · · i	
Wires, bars and rods	4		
Other and unclassified		10	
Ores and metals	221	199	209
Ores	189	199	209
Alumina/bauxite	48 6	46 7	45 13
Copper	65	10	10
Other and unclassified	70	136	141
Metals	32		
Copper	32		
Miscellaneous	174	306	373
Oil, vegetable	158	305	1 369
All other and unclassified	16	303	309
Total	411	541	593
	====		====
ASIA TO EAST COAST CENTRAL AMERICA:			
Chemicals and petroleum chemicals	117	60	4
Chemicals unclassified	114 3	59 1	1 3
Coal and coke (excluding petroleum coke)			15
Coal		•••••	15
Grains	67	28	15

		Fiscal year	
	1992	1991	1990
ASIA TO EAST COAST CENTRAL AMERICA—			
Continued Grains—Continued			
Rice	67	28	15
Machinery and equipment, miscellaneous		20	15 1
Manufactures of iron and steel	i		i
Plates, sheets and coils			<u> </u>
Tubes, pipes and fittings	1		
Ores and metals	8	<u>98</u>	• • • • • • •
Ores	8	<u>98</u>	<u></u>
Alumina/bauxite	8	20	
Other and unclassified	20	78	40
	29	30	40
Clay, fire and chinaOil, coconut	1	4 2	9
Oil vegetable	22	17	22
Wax, paraffin		i	5
Container cargo	6	4	3
All other and unclassified	• • • • • • •	2	1
Total	222	216	74
ASIA TO EAST COAST SOUTH AMERICA:			
Canned and refrigerated foods	1	2	
Refrigerated foods	1	2	1
Fish		1	
Other and unclassified	1	1 2	1 2
Chemicals, miscellaneous	$\frac{2}{1}$	$\frac{2}{2}$	$\frac{2}{2}$
Petroleum chemicals, miscellaneous	í		2
Coal and coke (excluding petroleum coke)	î		
Coke	1		
Grains	33	<u></u>	
Rice	33		
Machinery and equipment	56	33	17
Agricultural machinery and implements	1		1
Automobiles, trucks, accessories and parts  Construction machinery and equipment	42	22 3	8 2
Electrical machinery and apparatus	3	5	3
Motorcycles, bicycles and parts	2	2	2
Other and unclassified	4	1	1
Manufactures of iron and steel	35	43	49
Angles, shapes and sections			.1
Plates, sheets and coils	12 18	8 25	12
Wires, bars and rods	18	3	24 2
Other and unclassified	4	ž	10
Nitrates, phosphates and potash		<u></u>	1
Fertilizers, unclassified			1
Ores and metals	108	117	48
Ores	107	116	45
Alumina/bauxite	15	23	20
Manganese	4	7	3
Other and unclassified	88	86	22

		Fiscal year	
	1992	1991	1990
ASIA TO EAST COAST SOUTH AMERICA— Continued			
Ores and metals—Continued			
Metals	1	1	3
Tin, including tinplate	1		1
Other and unclassified		1	2
Miscellaneous	219	187	104
Carbon black	1	• • • • • • •	1
Clay, fire and chinaOil, vegetable	1 18	6	3
Resin	1	ĭ	
Rubber, manufactured	2	1	2
Textiles	11	• • • • • • •	1
Container cargo	116	123	74
All other and unclassified	69	56	23
Total	455	384	221
ACIA TO CDICTODAL D.D.			
ASIA TO CRISTOBAL, R.P.: Lumber and products, miscellaneous		1	1
Machinery and equipment	2	2	
Automobiles, trucks, accessories and parts	1	2	
Electrical machinery and apparatus	1		
Manufactures of iron and steel	22	24	13
Angles, shapes and sections  Plates, sheets and coils	5 11	15	9
Tubes, pipes and fittings		3	ź
Wire, bars and rods		1	2
Other and unclassified Ores and metals	6	5 2	1
Metals	1	2	1
lron		1	
Tin, including tinplate	1	i	i
Miscellaneous	449	355	300
Textiles			1
Container cargo	427 22	345 10	286 13
Total	474	384	317
10141		304	
ASIA TO WEST INDIES:			
Canned and refrigerated foods	22	37	47
Canned foods	15	19	16
FishFruit	• • • • • • •	4	3
Other and unclassified	15	14	13
Refrigerated foods	7	18	31
Fish	2	14	25
Meat	5	3	3
Other and unclassified	5 14	4	18
Caustic soda	13	<u> </u>	
Chemical, unclassified	Ĭ	2	18
Petroleum chemicals, miscellaneous		1	
Coal and coke (excluding petroleum coke)	5	• • • • • • • •	

		Fiscal year	
ACIA TO WEST INDIES. Continued	1992	1991	1990
ASIA TO WEST INDIES—Continued  Coal and coke (excluding petroleum coke)—Continued			
Coal	5		11
Grains	293	271	337
Corn	3	2	3
Rice	271 19	224 39	230 90
Other and unclassified		6	14
Lumber and products	14	83	225
Boards and planks	6 1	81 2	213
Plywood, veneers, composition board Pulpwood	7		3
Other and unclassified			5
Machinery and equipment	152	133	119
Agricultural machinery and implements Automobiles, trucks, accessories and parts	1 126	1 104	2 105
Construction machinery and equipment	3	3	5
Electrical machinery and apparatus	1 21	3 21	4
Motorcycles, bicycles and parts Other and unclassified	21	1	3
Manufactures of iron and steel	19	24	62
Angles, shapes and sections	• • • • • • •	1	1
Nails, tacks and spikesPlates, sheets and coils	6	2 10	2 27
Tubes, pipes and fittings	5	6	18
Wires, bars and rods Other and unclassified	8	2 3	14
Minerals, miscellaneous		2	2
Borax			1
Soda and sodium compounds		2	1 5
Nitrates, phosphates and potash  Ammonium compounds		8	
Fertilizers, unclassified	ì	8	3
Ores and metals	5	9	13
Ores, miscellaneous	3 2	7 2	8 5
Lead		$\frac{2}{1}$	<del></del>
Tin, including tinplate	ì	i	4
ZincOther and unclassified	1	• • • • • • •	·····i
Other agricultural commodities	58	38	89
Beans, edible	58	35	36
Cotton, raw	• • • • • •	1	1
Oilseeds		2	51 1
Petroleum products	21	19	
Gasoline	21	19	
Miscellaneous	333	310	360
Carbon black	1	7	
Cement	1	1	3
Clay, fire and china	5	1 2	6 4
Glass and glassware	4	$\bar{2}$	5

Table 11.—Important Commodity Shipments over Principal Trade Routes
Pacific to Atlantic—Continued

		Fiscal year	
ASIA TO WEST INDIES—Continued Miscellaneous—Continued	1992	1991	1990
Groceries, miscellaneous	2	5	1
Oil, vegetable	32	20	9
Paper and paper products	• • • • • • •	5	17
Porcelainware	3	1 4	1 8
Seeds, excluding oilseeds		15	
Textiles	2	5	2
Wax, paraffin	1 190	1 185	1 212
All other and unclassified	90	55	87
Total	937	938	1,288
ASIA TO EUROPE:			
Canned and refrigerated foods	31	9	5
Refrigerated foods	31	9	5
Fish	28	6	5
Other and unclassified	63	3 78	72
Caustic soda		1	
Chemicals, unclassified	47	65	49
Petroleum chemicals, miscellaneous	16	12	23
Coal and coke (excluding petroleum coke)	21	•••••	52
Coal	21	• • • • • • •	52
Machinery and equipment	19	23	27
Agricultural machinery and implements			3
Automobiles, trucks, accessories and parts	16	16	14
Construction machinery and equipment Other and unclassified	3	6 1	7
Manufactures of iron and steel	50	60	
Plates, sheets and coils		8	
Tubes, pipes and fittings	50	28	
Wire, bars and rods Other and unclassified		4 20	• • • • • • • • • • • • • • • • • • • •
Other agricultural commodities	6		
Copra and coconuts	6		
Ores and metals	• • • • • • •	21	18
Ores	• • • • • • •	16	18
IronOther and unclassified	• • • • • • •		4 14
Metals		16 5	
Copper		3	
Other and unclassified		2	
Petroleum products	1	5	
Fuel oil, residual	• • • • • •	1	
Lubricating oil		3	
Other and unclassified	1		
Miscellaneous	<u>155</u>	194	170
Oil, coconut Oil, fish	26	24	1 54
Oil, vegetable	20		1

	Fiscal year		
	1992	1991	1990
ASIA TO EUROPE—Continued			
Miscellaneous—Continued			
Seeds, excluding oilseeds			8
Wax, paraffin			
Container cargo	102	163	97
All other and unclassified	10	7	9
Total	346	390	343

#### Table 12.—Principal Canal Commodities by Direction—Fiscal Year 1992

[Long tons]

	Atlantic	Pacific	
Commodity	to Pacific	to Atlantic	Total
Ammonium compounds	647,739	18,725	666,464
Asbestos	11,943	3,108	15,051
Asphalt	108,085	10,123	118,208
Automobiles, trucks, and accessories	277,304	1,323,197	1,600,501
Bananas	8,092	2,144,629	2,152,721
Barley	90,764	112,073	202,837
Beans, edible	10,453	105,501	115,954
Benzene	72,002	22,834	94,836
Borax	652	367,552	368,204
Bricks and tile	25,925	10,943	36,868
Carbon black	33,349	123,995	157,344
Caustic soda	112,882 733,538	2,004	114,886
Cement	317,553	96,092 1,959	829,630
Chemicals, petroleum various	1,087,056	134,232	319,512
Chemicals, various	4,277,070	1,191,822	1,221,288 5,468,892
Clay, fire and china	724,352	16,355	740,707
Coal and coke (excluding petroleum coke)	4,424,136	4,483,890	8,908,026
Cocoa and cacao beans	2,034	38,364	40,398
Coffee	5,856	280,783	286,639
Coke, petroleum	894,752	2,610,460	3,505,212
Container cargo	12,039,493	9,836,807	21,876,300
Copra and coconuts		6,895	6,895
Corn	14,328,763	28,803	14,357,566
Cotton, raw	40,570	77,044	117,614
Fertilizers, various	2,573,269	38,512	2,611,781
Fibers, plant	2,150	6,061	8,211
Fishmeal	* * * * * * * * * * * * * * * * * * * *	657,792	657,792
Flour, wheat	272,132	59,222	331,354
Gasoline	1,640,209	660,859	2,301,068
Glass and glassware	7,753	4,072	11,825
Grains, various	501,060	97,931	598,991
Groceries, various	45,733	41,881	87,614
Jet fuel	1,031,022	120 52,587	1,083,609
Kerosene	33,384	115,042	148,426
Liquefied gas	1,085,195	155,019	1,240,214
Liquors and wines	2,424	22,485	24,909
Lumber and products (excluding pulpwood)	3,144,975	2,949,210	6,094,185
Machinery, agricultural	27,270	3,603	30,873
Machinery, construction	98,572	35,281	133,853
Machinery, electrical	22,342	8,608	30,950
Machinery, various	91,241	46,291	137,532
Manufactures of iron and steel	3,854,205	2,817,198	6,671,403
Marble and stone	126,846	802	127,648
Metal, aluminum	464,750	9,221	473,971
Metal, copper	6,733	703,934	710,667
Metal, iron	242,972	43,414	286,386
Metal, lead	2,466	66,399	68,865
Metal, zinc	4,273	164,990	169,263
Metals, various (including timplete)	1,423,872	2,195	1,426,067
Metals, various (including tinplate)	58,605	78,888 647.068	137,493
Nitrate of soda	12,185 58,400	647,068 387,720	659,253 446,120
Oats	36,669	6,735	43,404
Oil, coconut	1,459	17,371	18,830
Oil, crude	4,346,349	3,936,327	8,282,676
Oil, diesel	1,300,167	538,409	1,838,576
Oil, fish	483	115,046	115,529
		,-	,

#### Table 12.—Principal Canal Commodities by Direction—Fiscal Year 1992— Continued

[Long tons]

	Atlantic	Pacific	
Commodity	to Pacific	to Atlantic	Total
Oil, lubricating	566,335	212,511	778,846
Oil, residual fuel	2,054,696	3,287,059	5,341,755
Oil, vegetable	201,937	214,052	415,989
Oil, whale		4,457	4,457
Oilseeds	236,138	61,089	297,227
Ore, alumina/bauxite	158,756	769,140	927,896
Ore, chrome	61,630	28,028	89,658
Ore, copper	28,407	1,036,602	1,065,009
Ore, iron	119,869	406,706	526,575
Ore, lead	5,200	182,256	187,456
Ore, manganese	140,329 1,652	130,426 1,687	270,755 3,339
Ore, tin	34,134	1,158,891	1,193,025
Ore, various	188,187	1,832,967	2,021,154
Ores, various	1,077,733	494,391	1,572,124
Peas, dry	3,002	53,454	56,456
Petroleum and products, various	312,958	247,312	560,270
Phosphates	8,354,058	227,215	8,581,273
Porcelainware	10,007	496	10,503
Potash	826,604	2,248	828,852
Pulpwood	1,517,764	2,272,333	3,790,097
Refrigerated food products (excluding	-,,	-,,	-,,
bananas)	764,804	2,749,849	3,514,653
Resin	87,290	1,225	88,515
Rice	137,743	579,936	717,679
Rubber, manufactured	7,194	5,297	12,491
Rubber, raw	6,929	44,371	51,300
Salt	35,972	830,129	866,101
Seeds, excluding oilseeds	71,179	19,898	91,077
Skins and hides	736	120	856
Slag, clinkers, and dross	52,141	11,810	63,951
Soda and sodium compounds	31,393	601,504	632,897
Sorghum	1,946,648	20.020	1,946,648
Soybeans	7,207,461	20,020	7,227,481
Sugar	1,449,647	1,885,254	3,334,901
Sulfur	7,605	2,596,076	2,603,681
Tallow	117,047	31,547	148,594 15,139
Textiles  Tobacco and manufactures	8,206 211	6,933 484	695
Toluene	157,301	937	158,238
Wax, paraffin	10,832	32.431	43,263
Wheat	5,434,844	2,188,512	7,623,356
Wool, raw	261	1,465	1,726
All other	617,397	657,246	1,274,643
Total	96,845,771	62,426,847	159,272,618
1 Otal	70,073,771	02,720,847	107,212,010

#### Other Statistics

Table 13.-Water Supply and Usage

	Fiscal year		Percent of usage Fiscal year	
MADDEN AND GATUN LAKE WATER SUPPLY:	1992 (000's of	1991 Acre-feet)	1992	1991
Total runoff, Madden Lake Basin  Evaporation from Madden Lake	2,033 <u>—35</u>	1,788 —38		
Available for Madden Lake usage  Municipal water use Madden Lake	1,998 —122	1,750 —120		
Available for downstream usage	1,876 2,449	1,630 2,401		
Subtotal Evaporation from Gatun Lake	4,325 —387	4,031 -418		
Available for Gatun Lake watershed usage	3,938	3,613		
MADDEN LAKE WATER USAGE:				
Hydroelectric power Leakage	1,728 15	1,558 14	91	89 1
Spillway discharge Municipal	44 122	52 120	2	3
Total Madden Lake usage	1,909	1,744	100	100
GATUN LAKE WATER USAGE:				
Hydroelectric power Lockages, Gatun and Pedro Miguel Municipal and other usages Spillway discharge	1,336 2,082 107 154	988 2,123 112 429	36 57 3 4	27 58 3 12
Total Gatun Lake usage	3,679	3,652	100	100

#### Table 14.—Dredging Operations—Fiscal Year 1992

(Cubic yards)			
75 100	Earth	Rock	Total
Pacific District (Auxiliary)	514,619	N/A	514,619
Pacific Entrance (Widening)	2,138,465	N/A	2,138,465
Grand Total	2,653,084	N/A	2,653,084

#### Table 15.-Electrical Power Generated

(Gigawatt hours)

	Fiscal year	
	1992	1991
Generation: Gatun hydro station Madden hydro station Thermal generating stations	86 206 357	86 185 333
Gross generated by Panama Canal Commission  Less station service usage  Net total generated by Panama Canal Commission	649 (16) 633	581 (14) 567
Power Purchases: Through interconnections from Panama	3	3
Net Energy received for Wheeling	6	5
Power Sales: Through interconnections to Panama	(104)	(42)
Net power generated and purchased for Canal area only	538	533
Other power generated by military for own use	538	533
Power distributed to Commission's customers Transmission and Distribution losses Peak load (thousands of kilowatts) Date of peak load Canal area load factor ²	511 27 85.5 April 8 72%	510 23 85.1 June 12 72%

One gigawatt hour equal to I million kilowatt hours.

Table 16.—Fire Division Statistics

14510 101 1110 211				
	Fiscal	Year 1992	Fiscal	Year 1991
	Num- ber of fires	Property loss	Num- ber of fires	Property loss
Panama Canal Commission ¹ Armed Forces ² Private (including ships) ³ Republic of Panama ⁴	41 211 173 <u>62</u>	\$ 48,219 79,377 10,297 200	70 215 81 <u>85</u>	\$ 17,654 613,687 8,570,239 4,050
Total	<u>487</u>	\$138,093	<u>451</u>	<u>\$9,205,630</u>
			FY 199	02 FY 1991
Total calls minus fires 5			7,22	0 6,068
Total number of calls (all types) responded to.			7,70	7 6,519

¹ Figure includes \$35,000.00 fire loss of feeder switch cubicle # 714, Miraflores Power Plant.

² Total Canal area requirements divided by number of hours per year times peak load.

² This amount includes the \$18,000 fire loss at Bldg. 662, Howard and the \$14,900.00 fire loss at Quarters 46, Howard.

³ Figure does not include the fire loss of MV "Ocean Sky." Data was unobtainable from vessel's agents.

⁴ Responses made to areas reverted to the Republic of Panama but responded by Commission forces, such as grass fires, railroad fires, etc. . .

⁵ Includes responses to all types of emergencies (ambulances and fire apparatuses).

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